

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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XC\_CT\_RN\_AIVI\_Scope 3.x**

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 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

Table Of Contents

1 . List of used Open-Source Components.....	11
2. Appendix - License Text .....	73
2.1 The Academic Free License v.2.1 .....	73
2.2.Apache License 2.0 .....	76
2.3.Apple MIT License .....	79
2.4.Apple Public Source License 1.1 .....	80
2.5.Boost Software License 1.0 .....	87
2.6.BSD 2-Clause "Simplified" License .....	87
2.7.BSD 3-Clause "New" or "Revised" License .....	88
2.8.BSD-like license (libktx) .....	88
2.9.Bzip2 License .....	90
2.10.copyleft-next 0.3.0 .....	91
2.11.Eclipse Distribution License 1.0.....	94
2.12.Fine Free File Command License.....	95
2.13. Freemage Public License v1.0 .....	95
2.14. Freetype Project License .....	100
2.15.GCC Runtime Library Exception 3.1 to GPL 3.0 .....	103
2.16.GNU General Public License v2.0 only .....	114
2.17.GNU General Public License v2.0 only and GPLv2 with Linux Syscall note.....	118
2.18.GNU General Public License v2.0 or later.....	123
2.19.GNU General Public License v2.0 w/Autoconf exception .....	128
2.20.GNU Lesser General Public License v2.1 only.....	129
2.21.GNU Lesser General Public License v2.1 or later .....	136
2.22.GNU Library General Public License v2 only.....	143
2.23.GNU Library General Public License v2 or later.....	152
2.24.GPL 2.0 with OpenSSL Exception .....	160
2.25.ICU License .....	160
2.26.Independent JPEG Group License .....	161
2.27.Info-ZIP License .....	162
2.28.Info-ZIP Updated License .....	163
2.29.ISC License.....	164
2.30.Jam STAPL Software License.....	164
2.31.libpng License .....	165
2.32.libtheora License .....	167
2.33.libtiff License .....	168
2.34.License for Delaunay-Triangulation .....	169
2.35.Lua 5.0 License .....	169
2.36.MIT License .....	169
2.37.Mozilla Public License 2.0 .....	169
2.38.NeuQuant Neural-Net Quantization Algorithm License .....	174
2.39.OpenSceneGraph Public License Version 0.0 .....	174
2.40. OpenSSL Combined License .....	175
2.41.OSF - X Consortium License.....	177
2.42. OSGEARTH SOFTWARE LICENSE.....	177

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

2.43. Public Domain.....	179
2.44. Stanford SRP Authentication Project License .....	179
2.45. stunnel GPL 2.0 with Exception License .....	180
2.46. TCP Wrappers License .....	185
2.47. Unicode License .....	186
2.48. Utm License.....	186
2.49. zlib License.....	186
2.50. The Unicode Terms of Use .....	187
2.51. X11 License .....	188
2.52. FreeBSD-Boot.....	189
2.53. Renesas-Firmware .....	190
2.56. CC-BY-SA-4.0.....	191
2.57. IBM-pibs .....	200
2.58. Python Software Foundation License 2.1.1 .....	201
2.59. Carnegie Mellon University License.....	203
2.60. Eclipse Public License 1.0 .....	203
2.61. BSD-4-Clause (University of California-Specific) license .....	208
2.62. Paul Mackerras Binary License.....	209
2.63. Mozilla Public License 1.0.....	210
2.64. The eCos license version 2.0 .....	218
<b>3 Other Open-Source Dependencies:.....</b>	<b>218</b>
3.1. Supplier : Alps_Alpine .....	218
3.2. Supplier : Android_OMR1.....	221
3.3. Supplier : Apertis .....	222
3.4. Supplier : CGI .....	294
3.5. Supplier : Escript .....	295
3.6. Supplier : LG Innotek .....	296
3.7. Supplier : Neusoft .....	324
3.8. Supplier: Nuance .....	338
3.9. Supplier : OMRON.....	338
3.10. Supplier : Real_VNC_3_2.....	338
3.11. Supplier : Redbend_SWM.....	343
3.12. Supplier : Redbend .....	344
3.13. Supplier : Teseo .....	345
3.14. Supplier : SK_telecom.....	345
3.15. Node Modules Components .....	347
<b>4 LICENSE DETAILS: .....</b>	<b>370</b>
4.1. GPL V3 or later with autoconf exception .....	370
4.2. GPL V2 or later with Libtool exception.....	370
4.3. X11 .....	370
4.5. FSF.....	371
4.6. FSFUL .....	371
4.7. GFDL-1.3 .....	371
4.8. CC0-1.0.....	378

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

4.9.GPL-1.0+.....	380
4.10.Artistic-1.0-Perl .....	383
4.11.TCL.....	385
4.12.AFL-2.0 .....	385
4.13.BSD4-UC.....	388
4.14.NTP .....	389
4.15.GFDL-1.1.....	389
4.16.Apache-1.1.....	394
4.17.BSD-1-Clause.....	395
4.18.FSFAP .....	395
4.19.Freeware License .....	396
4.20.NCSA.....	396
4.21.BSD-2-Clause-NetBSD.....	397
4.22.NTP .....	397
4.23.Curl License.....	398
4.24.CC-BY-4.0 .....	398
4.25.Sun RPC License .....	403
4.26.LGPL V2.1+ with GCC exception.....	404
4.27. GPL-3.0+ with gnu-javamail-exception .....	404
4.28.GPL-2.0-ONLY with gnu-javamail-exception .....	404
4.29. GPL V3 or later with Tex exception .....	405
4.30. Advanced Micro Devices License .....	405
4.31. The Inner Net License.....	405
4.32. GPL-2.0 WITH Linux-syscall-note.....	406
4.33. GPL v2 or later with mkerrcodes.awk exception .....	412
4.34. HPND-sell-variant.....	413
4.35. MIT-Modern-Variant.....	413
4.36. MIT-open-group .....	413
4.37. OLDAP 2.8 .....	414
4.38.Cryptogams .....	415
4.40.Libktx License.....	415
4.41.Beerware License.....	418
4.42. The Unlicense .....	418
4.43. Autodesk® FBX® SDK 2014 License Agreement .....	419
4.44. Bitstream Vera Fonts Copyright.....	433
4.45. BMFont License .....	435
4.46. Microsoft Public License (Ms-PL) .....	435
4.47. HarfBuzz / UCDN License .....	436
4.48. Json-cpp License .....	436
4.49.Libunibreak License .....	437
4.50. NEUQUANT Neural-Net quantization algorithm license.....	438
4.51. OpenGL Licensing Programs.....	438
4.52. RLAD Compression license .....	438
4.53. ZLIB Data Compression Library License Agreement .....	439

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

4.54. SGI-B-2.0 .....	439
4.55.AFL-3.0 .....	440
4.56.MirOS .....	443
4.57.CPOL 1.02.....	444
4.58. Custom License (libjpeg-turbo license).....	448
4.59. Ruby License .....	448
4.60. postgresQL License.....	449
4.61.Brian Gladman 3-Clause License .....	449
4.62. Brian Gladman License .....	450
4.63. MIT open group variant license.....	450
4.64. The OpenSSL Project license .....	451
4.65. Digital equipment license .....	452
4.66. BSDiff license .....	453
4.67. Acquired CMarkup Developer License .....	453
4.68.Lawicel CAN USB sample code license.....	454
4.69. Anti-Grain Geometry Public License .....	454
4.70. The Code Project Open License (CPOL) 1.02.....	454
4.71. GNU General Public License v3.0 or later with Bison exception 2.2 .....	458
4.72. Affero General Public License v3.0 .....	476
4.73. MIT v2 with Ad Clause License .....	486
4.74. Info-ZIP Updated License .....	487
4.75. Iperf License .....	488
4.76.Less License.....	488
4.77. Libffi License .....	489
4.78. Cameron Rich license .....	489
4.79. SyncML License.....	490
4.80.Lawicel CAN USB sample code license.....	491
4.81. GSM License.....	491
4.82. Custom License for iccjpeg .....	492
4.83. Custom License (libjpeg-turbo license).....	493
4.84.The zlib/libpng License (Zlib).....	494
4.85.Boost Software License 1.0 (BSL-1.0) .....	494
4.86.MIT License .....	494
4.87.MPL v1.1 License .....	495
4.88.The 3-Clause BSD License(BSD3).....	496
4.89.Apache License, Version 2.0 .....	497
4.90.University of Illinois/NCSA Open Source License.....	504
4.91.The 2-Clause BSD License(BSD2).....	505
4.92.ISC License (ISC) .....	506
4.93.Public Domain.....	506
4.94.libpng license .....	507
4.95.Freetype Project License.....	508
4.96.libjpeg-turbo License .....	512
4.97.Creative Commons Attribution 3.0 .....	515

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

4.98.Custom License for iccjpeg .....	519
4.99.GNU LESSER GENERAL PUBLIC LICENSE .....	521
4.100.SGI Free Software License B .....	539
4.101.The Code Project Open License (CPOL) 1.02 (CppSQLite3) .....	540
4.102.ICU License.....	541
4.103.PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2 (Backports).....	555
4.104.PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2 (Python) .....	557
4.105.Apache License, Version 2.0 (For Tornado).....	566
4.106.zlib license .....	574
5. Supplier : Obigo Component: .....	574
5.1 vuejs-2.4 .....	574
5.2 vux-0.1.3 .....	575
5.3 es6-promise-3.3.....	575
5.4 Quasar framework – 0.5 .....	575
5.5 tween.js – 16.6.....	575
5.6 iScroll – 5 .....	576
5.7 array-filter -1.0.0 .....	576
5.8 array-find -1.0.0 .....	576
5.9 array-from -1.0.0 .....	576
5.10 array-map -0.0.0.....	577
5.11 array-shuffle - 1.0.0 .....	577
5.12 countup-1.6.1 .....	577
5.13 object-assign-4.1.0 .....	577
5.14 photoswipe-4.1 .....	578
5.15 shake.js-1.2.2 .....	578
5.16 validator – 5.1.0 .....	578
5.17 webp-support -1.0.3 .....	578
5.18 HTML Parser.....	579
5.19 acrchiver – 2.1.1 .....	579
5.20 async – 2.6.3.....	579
5.21 bluebird – 3.5.5 .....	579
5.23 extract-zip- 1.7.0 .....	580
5.24 fs-extra – 2.1.2 .....	580
5.25 iconv-lite – 0.4.24.....	580
5.26 is-online – 7.0.0 .....	580
5.27 json-rpc2 – 1.0.2 .....	581
5.28 lodash – 4.17.15.....	581
5.29 progress-stream – 2.0.0 .....	581
5.30 scp2-0.5.0.....	581
5.31 ssh2 – 0.5.5 .....	582
5.32 sshpk – 1.16.1.....	582
5.33 targz – 1.0.1 .....	582
5.34 vboxmanage.js – 1.0.6 .....	582
5.35 xml2js – 0.4.23.....	583

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

5.36	requirejs - 2.1.1 .....	583
5.37	semver - 2.1.0 .....	583
5.38	SlowAES - 0.1a1 .....	583
5.39	which - 1.0.5 .....	584
5.40	eventemitter2-1.0.0 .....	584
5.41	moment.js - 2.24.0 .....	584
5.42	bootstrap - 2.3.1 .....	584
5.43	flexbuffers - 1.7.1 .....	585
5.44	etch - 1.4.0 .....	585
5.45	CppSQLite -C++ Wrapper for SQLite - 3.2 .....	585
5.46	afl-fuzz-2.31b .....	585
5.47	android craxy linker .....	586
5.48	platform_system_core .....	586
5.49	angle-master_2014-10-03 .....	586
5.50	Blink .....	586
5.51	boringsssl-master .....	587
5.52	breakpad-origin/chrome_53 .....	587
5.53	brotli-v0.4.0 .....	587
5.54	catapult-0.1.0-alpha-1 .....	588
5.55	cacheinvalidation-master_2014-09-04 .....	588
5.56	cld2-master_2017-12-14 .....	588
5.57	fontconfig-2.11.0 .....	588
5.58	compact_encoding_detection .....	588
5.59	cld3-2f6624f0a6d6fd8f76bdcae38558c73d23ebec1e .....	589
5.60	coveragepy-coverage-4.0.3 .....	589
5.61	crashpad-electron-v1.6.12 .....	589
5.62	dmg_fp-master_2014-05-19 .....	589
5.63	external-chromium_org-sdch-open-vcdiff-mips-kk-4.4.2_r1.m1 .....	590
5.64	flac-1.3.1 .....	590
5.65	flatbuffers-v1.2.0 .....	590
5.66	freetype2-VER-2-8-1 .....	590
5.67	glslang-GoogleGlslang20160218 .....	591
5.68	googlemock-release-1.7.0 .....	591
5.69	googletest-release-1.7.0 .....	591
5.70	grpc-v1.4.7 .....	591
5.71	harfbuzz-1.3.1 .....	592
5.72	iccjpeg-32.0.1700.102 .....	592
5.73	icu-release-56-1 .....	592
5.74	jsoncpp-svn-release-0.6.0-rc2 .....	592
5.75	khronos_headers .....	592
5.76	leveldb-v1.20 .....	593
5.77	libaddressinput-master_2014-10-07 .....	593
5.78	libevent-release-1.4.15-stable .....	593
5.79	dist-llvm-master_2010-04-15 .....	593

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

5.80	libjpeg-turbo-1.4.90.....	594
5.81	libphonenumbers-v8.9.8 .....	594
5.82	libpng-v1.6.22beta03.....	594
5.83	libsrt-v1.5.2 .....	594
5.84	libvpx-v1.6.0 .....	595
5.85	libwebm-libwebm-1.0.0.27.....	595
5.86	libwebp-v0.5.1 .....	595
5.87	libxml2-v2.9.5 .....	596
5.88	libXNVCtrl-master_2018-03-01 .....	596
5.89	libxslt-v1.1.29-rc2 .....	596
5.90	libyuv-v1.0.0.....	596
5.91	linux_syscall_support .....	596
5.92	minigbm.....	597
5.93	modp_b64-master_2014-10-08 .....	597
5.94	mojo-master_2014-10-08.....	597
5.95	mt19937ar-32.0.1700.102.....	598
5.96	native_client-master_2014-10-16 .....	598
5.97	openh264-v1.4.0 .....	598
5.98	opus-v1.1.3 .....	598
5.99	ots-v5.0.0 .....	598
5.100	ozone-wayland-45.0.2454.37 .....	599
5.101	pdfium-chromium/3440.....	599
5.102	protobuf-v3.0.0-beta-3 .....	599
5.103	qcms.....	599
5.104	re2-2016-02-01 .....	600
5.105	SevenZip-LZMA-15.14.....	600
5.106	shaderc-v2018.0 .....	600
5.107	skia-v1.60.0 .....	600
5.108	smhasher-trunk_2014-04-22.....	600
5.109	snappy-v1.1.0.....	601
5.110	uriparser-uriparser-0.8.0 .....	601
5.111	SPIRV-Tools-spirv-1.1-rev1 .....	601
5.112	sqlite-version-3.8.4 .....	601
5.113	tcmalloc-master_2012-05-20 .....	602
5.114	url_parse.....	602
5.115	usrctp-0.9.3.0.....	602
5.116	v8-5.6.309.1 .....	602
5.117	VulkanTools-sdk-1.0.8.0.....	602
5.118	wayland-protocols .....	603
5.119	WebGL-master_2015-01-08 .....	603
5.120	webrtc-builds-9686 .....	603
5.121	woff2-a15a8ab86b934cf436f8fac4a8a11ddf8b59d792 .....	604
5.122	zlib-1.2.8.....	604
5.123	boost_1_64_0.....	604

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

5.124	libjson-c-0.10.....	604
5.125	pkg-config-generator .....	604
5.126	uriparser-0.8.5 .....	605
5.127	xmlsec1-1.2.24 .....	605
5.128	Tornado-4.1 .....	605
5.129	Ujson-1.35 .....	605
5.130	Python-2.7.9 .....	606
5.131	Backports-3.4.0.2.....	606
5.132	babel-runtime - 6.26.0 .....	606
5.133	core-js-2.5.1 .....	606
5.134	css-loader-0.25.0 .....	606
5.135	vue-loader-13.7.2 .....	607
5.136	Blackmagic DeckLink SDK 9.6.4-master_2012-10-10.....	607
5.137	aes-js - 3.1.2 .....	607
5.138	mosquitto-v1.6.7.....	607
5.139	atob - 2.1.2 .....	608
5.140	cli-spinners - 1.3.1 .....	608
5.141	vue-i18n .....	608
5.142	vue-router .....	608
5.143	vue-style-loader.....	608
5.144	webpack.....	609
5.145	cli-table-redemption - 1.0.1 .....	609
5.146	co - 4.6.0 .....	609
5.147	commander - 2.20.3 .....	609
5.148	fs-extra - 3.0.1.....	609
5.149	inquirer - 3.3.0 .....	610
5.150	ora - 1.4.0 .....	610
5.151	thunkify - 2.1.2.....	610
5.152	unzip - 0.1.11 .....	610
5.153	xmldom - 0.1.31 .....	610
5.154	xpath - 0.0.24.....	611
5.155	npm-cli-login - 0.1.1 .....	611
5.100	ozone-wayland-45.0.2454.376.156 selenium-webdriver-master_2015-05-28.....	611
5.157	glog-v0.3.4 .....	611
5.158	freetype-freetype-2.6.1 .....	612
5.159	jsoncpp-1.6.2.....	612
5.160	brackets - 1.11 .....	612
5.161	bootstrap-toggle - 2.2.2.....	612
5.162	Toastr .....	612
5.163	sqlite-version-3.7.6.2 .....	613
6.	Supplier: Obigo License Terms: .....	613
6.1	The zlib/libpng License(Zlib) .....	613
6.2	Boost Software License 1.0(BSL-1.0) .....	613
6.3	MIT License.....	614

 <b>BOSCH</b>	OSS Attribution Document	DATE
XC-CT	XC_CT_RN_AIVI_Scope 3.x	4th April 2023

6.4 . MP v1.1 License.....	615
6.5. The 3-Clause BSD License(BSD3) .....	616
6.6 .Apache License, Version 2.0 .....	617
6.7 .University of Illinois/NCSA Open Source License .....	624
6.8 The 2-Clause BSD License(BSD2) .....	624
6.9 ISC License (ISC).....	625
6.10 Public Domain .....	625
6.11 libpng License .....	626
6.12 Freetype Project License .....	631
6.13 Custom License fir iccjpeg.....	637
6.14 GNU Lesser General Public License .....	638
6.15 SGI Free Software License B.....	680
6.16 The Code Project Open License (CPOL) 1.02 (CppSQLite3).....	681
6.17 ICU License .....	684
6.18 Python License 2.0(Backports) .....	697
6.19 Python License 2.0(Python) .....	699
6.20 Apache License, Version 2.0(Tornado) .....	709
6.21 The 3-Clause BSD License (UJson) .....	716
6.22 The 3-Clause BSD License (boringssl-master) .....	717
6.23 EPL 1.0 & EDL 1.0 (Mosquito).....	724
6.24 Apple PSL 2.0 .....	725
6.25 MPL v1.1 License.....	725
6.26 The 3-Clause BSD License (android crazy linker).....	726
6.27 MIT License(dmg_fp-master_2014-05-19) .....	728
6.28 MIT License(glslang-GoogleGlslang20160218) .....	729
6.29 MIT License(harfbuzz-1.3.1) .....	730
6.30 IJG(Independent JPEG Group)License .....	730
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6.33 Public Domain(SecenZip-LZMA-15.14).....	743

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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The GNU General Public License v2.0 wLinux-syscall-note

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Version 2, June 1991

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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by James Random Hacker.  
signature of Ty Coon, 1 April 1990  
Ty Coon, President of Vice  
That's all there is to it!

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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The JG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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Supplier: Alps_Alpine				
Name of OSS Component	Version	License	Home Page	Copyrights

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Android - platform - frameworks - base	android-6.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-8.0.0_r2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
aosp-mirror/platform_hardware_libhardware	android-n-iot-preview-4	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - av	android-7.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - external - bluetooth - bluedroid	android-4.2.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - av	android-4.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
aosp-mirror/platform_hardware_libhardware	android-o-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-7.1.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-2.1_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-o-preview-2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
CyanogenMod - android_external_bluetooth_bluedroid	cm-10.2-M1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
aosp-mirror/platform_hardware_libhardware	android-n-mr2-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-5.1.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-p-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-3.2.4_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-wear-n-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-8.1.0_r2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
aosp-mirror/platform_hardware_libhardware	android-6.0.1_r30	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.0.3_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.4_r0.7	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-8.0.0_r21	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	

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Android - platform - frameworks - base	android-wear-n-preview-2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-5.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-4.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.1.1_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-7.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - opt - bluetooth	android-n-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-4.3_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-n-iot-preview-4	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-n-preview-3	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-6.0.0_r5	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - external - bluetooth - blueandroid	android-4.4_r0.8	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-5.0.0_r2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.4_r0.9	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-o-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
aosp-mirror/platform_hardware_libhardware	android-5.0.0_r2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - external - bluetooth - blueandroid	android-4.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-6.0.1_r56	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-4.4_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-7.0.0_r5	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.0.1_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Linux Kernel	v3.4-rc4	(GNU General Public License v2.0 only AND GNU General Public License v2.0 or later)	<a href="https://www.kernel.org">https://www.kernel.org</a>	

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Android - platform - frameworks - base	android-7.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.4_r0.8	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - hardware - libhardware	android-5.1.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-n-mr2-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - packages - apps - Bluetooth	android-6.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - opt - bluetooth	android-6.0.0_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-n-preview-1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	android-4.2_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	

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Supplier:Android_OMR1				
Name of OSS Component	Version	License	Home Page	Copyrights
ARM trusted firmware BL31		BSD2		
AVB Media Clock Recovery Handler driver		GPL v2/MIT		
AVB Media Streaming Engine driver		GPL v2/MIT		
AVB Streaming driver		GPL v2/MIT		
boot_control		Apache v2		
device.renesas.common		Apache v2		
device.renesas.kingfisher		Apache v2		
device.renesas.salvator		Apache v2		
device.renesas.ulcb		Apache v2		
Dynamic Trusted Application Note		BSD2		
evs		Apache v2		
gatekeeper		Apache v2		
HWComposer		Apache v2		
interfaces.graphics.composer		Apache v2		
IPL		BSD		
Kernel		GPL v2		
keymaster		Apache v2		
LensPicker		Apache v2		

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libLLVMIMG.so		University of Illinois/NCSA Open Source License		
libstagefrighthw		Apache v2		
Memory Manager Driver		GPL v2/MIT		
Memory Manager I/F		MIT		
NetworkDisplayDemo		Apache v2		
Oemlock		Apache v2		
OP-TEE (including TEE internal API)		BSD2		
OP-TEE Linux driver		GPL v2/MIT		
Overview		Apache v2		
patch files for i2c-tools		GPL v2		
QoS driver		GPL v2/MIT		
QoS I/F		MIT		
R8A7795 GX6650 Device Driver for Android		GPL v2/MIT		
R8A7796 GX6250 Device Driver for Android		GPL v2/MIT		
Settings file of usb fw		Apache v2		
si-tools		GPL v3		
SPI / HyperFlash driver		BSD2		
SS6.3-Public Driver for Linux		GPL v2/MIT		
Timer driver		BSD2		
U-Boot		GPL v2		
UVCS Driver for Android		GPL v2/MIT		
VSP Manager		GPL v2/MIT		
VSP Manager I/F		MIT		
VSPM I/F Driver		GPL v2/MIT		

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sysvinit	2.93- 8bv2019.0b 1	GPL-2.0+ Other licenses: GPL- 2.0		Copyright on this file 1998 Danek Duvall. Copyright (c) 2011 SuSE LINUX Products GmbH, All

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targplv2	1.17-0co9ba1	GPL-2.0+ Other licenses: Public Domain GPL-1.0+ X11 LGPL-2.1+ GPL V2 or later with bison exception GPL-2.0-with-autoconf-exception GPL V2 or later with texinfo exception GPL V2 or later with autoconf exception		Copyright © 2004 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium Copyright (C) 1983 Regents of the University of California. (C) Copyright 2013 Bdale Garbee
utillinux	2.33.1-0.1co1bv20 20.0b1	GPL-2.0+ Other licenses: BSD-4-Clause-UC Public Domain MIT LGPL-2.1+ FSF BSD-3-Clause GPL-2.0 LGPL-2.0+ GPL-1.0+ ISC X11 GPL v3 or later		Copyright © Michael Piefel 2002, 2004, 2005, 2007, 2008. Copyright © Karel Zak copyright is claimed. This code is in the Public Domain; do with it what you wish. Copyright ©

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		<p>with Bison exception            GPL-2.0+-with-libtool-exception            GPL V2 or later with autoconf exception            GPL V3 or later with autoconf exception            GNU Libtool GPL V3 or later with exception            FSFUL</p>	<p>2015 Free Software Foundation, Inc            Copyright © 2014 Benjamin Weis Mario Blättermann; , 2014, 2015. Philipp Thomas 2014, 2015, 2017.            Copyright © 2012-2015 Dan Nicholson            Copyright © 2012 Arun Persaud;            Copyright © 2011,2015,2016 Philipp Thomas            Copyright © 2004 Scott James Remnant            Copyright © 2004 Nilgün Belma Bugüner.            Copyright © 2002-2018 Lauri Nurmi            Copyright © 2001, 2002 Karl Eichwalder.            Copyright © 2000–2001 Gunnar Ritter.            Copyright © 1994–2002 Kevin E. Martin</p>
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xzutils	5.2.4- 1bv2019.0b 1	Public Domain Other licenses: GPL-2.0+ LGPL-2.1+ GPL-2.0+-with- libtool-exception FSFUL GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception MIT	Copyright: © 2014, Google Inc. Copyright: © 2008, Steven G. Johnson Copyright: © 2003 Free Software Foundation, Inc. Authors: Bruno Haible Copyright: © 1997-2007 by Dimitri van Heesch Copyright: © 1993, Jean- loup Gailly Copyright: 2010, Marek Černocký 2010, Andre Noll 2011, Adrien Nader Copyright: 2009-2010, Lasse Collin Copyright: 2010, Daniel Mealha Cabrita Copyright: 2009, Andrew Dudman 2009, Lasse Collin Copyright: 2009, 2010, Gruppo traduzione italiano di Ubuntu-it 2010, Lorenzo De
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yajl	2.1.0-3ba1	ISC		Copyright (c) 2007-2014, Lloyd Hilaiel Copyright (c) 2010-2011 Florian Forster Copyright: 2011 John Stamp

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### 3.4. Supplier : CGI

Supplier: CGI				
Name of OSS Component	Version	License	Home Page	Copyrights
ANGLE		BSD 3-Clause License		
Autodesk® FBX® SDK		Autodesk® FBX® SDK 2014 License Agreement		
AvalonDock		BSD 3-Clause License		
AvalonEdit		LGPLv2.1		
Bitstream Vera Fonts		Bitstream Vera Fonts Copyright		
BMFont		BMFont License		
DevIL Image Library		LGPLv2.1		
DotNetZip Library		Microsoft Public License (Ms-PL)		
Extended WPF Toolkit		Microsoft Public License (Ms-PL)		
EPPlus Library		LGPLv2.1		
Free Type Engine		Freetype Project License		
GLEW Library		MIT License		
Google Test		BSD 3-Clause License		
GraphSharp		Apache 2.0 License		
HarfBuzz Text Shaping Engine / UCDN - Unicode Database and Normalization		HarfBuzz / UCDN License		
ICU		ICU License		
json-cpp JSON reader and writer in C++		Json-cpp License		
Libktx		Libktx License		
Libunibreak Library		Libunibreak License		
Log4Net		Apache 2.0 License		
Median Cut algorithm (C Plus Plus)		Creative Commons CC0 1.0 Universal		
Microsoft Unity Container		Microsoft Public License (Ms-PL)		
NCalc		MIT License.		

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NEUQUANT Neural-Net quantization algorithm		NEUQUANT Neural-Net quantization algorithm license		
OpenGL ES		OpenGL Licensing Programs		
Prism (Composite Application Guidance for WPF and Silverlight)		Microsoft Public License (Ms-PL)		
RLAD Compression		RLAD Compression license		
SharpSvn (Subversion Client API for .Net)		Apache 2.0 License		
Unicode.org Bidi Reference Implementation		Unicode Inc. License Agreement		
WPF PropertyGrid Control		Apache 2.0 License		
Xerces-C++ XML Parser		Apache 2.0 License		
ZLIB Data Compression Library		ZLIB Data Compression Library License Agreement		

### 3.5.Supplier : Escript

Supplier : Escript				
Name of OSS Component	Version	License	Home Page	Copyrights
The ASN.1 Compiler	asn1c - 0.9.21 asn1c - 0.9.26	BSD (Two Clause License)		Copyright © 2003-2016 Lev Walkin <vlm@lionet.info> and contributors, Copyright © 2003, 2004 X/IO Labs, xiolabs.com
Base64_encode_decode_Stack overflow	2/16/2015	Creativecommons Attribution ShareAlike 3.0		© 2015 stack exchange inc
libcurl	7.22	Curl License		Copyright (c) 1996 - 2016, Daniel Stenberg, daniel@haxx.se.
libdbus	1.4.18	Academic Free License v2.1		Copyright (C) 2003-2004 Lawrence E. Rosen

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				Copyright (C) 1989, 1991 Free Software Foundation, Inc.
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### 3.6.Supplier : LG Innotek

Supplier: LG Innotek				
Name of OSS Component	Version	License	Home Page	Copyrights
abi	Android4.4	BSD-3-Clause	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2011 The Android Open Source Project All rights reserved.
adb	1.0.31	BSD-3-Clause AND Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 1988 Regents of the University of California. * All rights reserved. Copyright (c) 2006-2009, 2012 The Android Open Source Project Copyright 2006, Brian Swetland <swetland@frotz.net>
android-clat	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright 2010-2012 Daniel Drown
applypatch	Android4.4	BSD-2-Clause AND Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2009 The Android Open Source Project
aprd	Android4.4	GPL-2.0-only	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
atrace	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2012 The Android Open Source Project
audioflinger	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2005-2009,2012 The Android Open Source Project

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autotest	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2012,2014 The Android Open Source Project
bluedroid	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 1999-2012 Broadcom Corporation
bmgr	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2009, The Android Open Source Project
bugreport	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2009 The Android Open Source Project
busybox	1.17.1	GPL-2.0-only	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 1998-2009 Erik Andersen, Rob Landley, Denys Vlasenko and others
common_time	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2005-2008,2011-2012 The Android Open Source Project
compress_simu	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2011 The Android Open Source Project
connectivitymanager	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2013, The Android Open Source Project
custom_mmi	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2016 The Android Open Source Project Copyright (C) 2016 Spreadtrum Inc.
debuggerd	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2005-2008, 2011-2012 The Android Open Source Project

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dhcp6	Android4.4	BSD-3-Clause AND ISC AND BSD-4-Clause-UC AND Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 1998-2004 WIDE Project. All rights reserved.
dhcpcd	5.5.6	BSD-2-Clause AND BSD-3-Clause AND ISC AND Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved. Copyright (c) 2006-2008 Roy Marples <roy@marples.name> All rights reserved Copyright 2006-2012 Roy Marples <roy@marples.name> All rights reserved Copyright (c) 2004,2007 by Internet Systems Consortium, Inc. ("ISC") Copyright (c) 1996-2003 by Internet Software Consortium Copyright 2011, The Android Open Source Project
dnsmasq	2.51	GPL-2.0-or-later	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2000-2009 Simon Kelley
drmsrver	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2005-2008,2010 The Android Open Source Project
dumpdata	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2008 The Android Open Source Project

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dumpstate	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2008,2013 The Android Open Source Project
dumpsys	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2005-2008 The Android Open Source Project
e2fsprogs	1.41.14	GPL-2.0-or-later AND LGPL-2.0-or-later AND BSD-3-Clause AND MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 by Theodore Ts'o. Copyright 1990, 1991, 1992 Free Software Foundation, Inc. Written May 1989 by Mike Haertel. Copyright (C) 1985-2005 by the Massachusetts Institute of Technology. All rights reserved. Copyright (C) 1996-1999,2003,2007 Theodore Ts'o. Copyright 1999 Andreas Dilger (adilger@enel.ucalgary.ca) Copyright (c) 1988 Regents of the University of California. All rights reserved. Copyright (c) 1997, 1998, 2001 Kungliga Tekniska Högskolan (Royal Institute of

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expat	2.1	MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.
factorytest	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2006,2007,2014 The Android Open Source Project Copyright (C) 2014 The CyanogenMod Project
filterfw	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2011 The Android Open Source Project
filterpacks	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2011 The Android Open Source Project
framework-base-data	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2008 The Android Open Source Project copyright © 2007, Google Corporation.Regu

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				larAscender - Droid SansVersion 1.00 copyright Google 2013 Google:Roboto: 2013Roboto RegularVersion 1.200310
framework- native-data	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2006-2013 The Android Open Source Project
freetype	2.4.2	FTL AND MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright 1996- 2002, 2006 by David Turner, Robert Wilhelm, and Werner Lemberg Copyright (C) 2000, 2001, 2002 by Francesco Zappa Nardelli
gcc-demangle	4.6	GPL-2.0-or-later AND LGPL-2.0-or-later	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2007, 2008, 2009, 2010 ↑ Free Software Foundation, Inc. Copyright ↑ (C) 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc. Written by Ian Lance Taylor <ian@wasabisyst ems.com>.
ge2_libgps	GPS_GLO GE2_W17.40 .5	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2010 The

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harfbuzz_ng	0.9.14	MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Android Open Source Project Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies) Copyright © 2009 Keith Stribley Copyright © 2009 Martin Hosken and SIL International Copyright © 2007 Chris Wilson Copyright © 2006 Behdad Esfahbod Copyright © 2005 David Turner Copyright © 2004,2007,2008,2009,2010 Red Hat, Inc. Copyright © 1998-2004 David Turner and Werner Lemberg Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net> Copyright © 2010,2011,2012 Google, Inc. Copyright © 2012 Mozilla Foundation Copyright © 2011 Codethink Limited Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies) Copyright ©
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healthd	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2013 The Android Open Source Project
icu4c	49.1.1	ICU	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 1995-2012 International Business Machines Corporation and others All rights reserved.
ime	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2007, The Android Open Source Project
input	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2007, The Android Open Source Project

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iosnoop.sh	Android4.4	GPL-2.0-or-later	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	COPYRIGHT: Copyright (c) 2014 Brendan Gregg.
iotat	Android4.4	Apache-2.0 AND GPL-2.0-only	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright 2006,2007 The Android Open Source Project Copyright (C) 2012 Spreadtrum Communications Inc.
iproute2	ss120521	GPL-2.0-or-later	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Alexey Kuznetsov, <kuznet@ms2.inr .ac.ru> Copyright (C)2004,2006- 2007 USAGI/WIDE Project
ipsec-tools (raccoon)	0.7.3	BSD-3-Clause	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 1995-2003 WIDE Project. Copyright (C) 2004-2006 Emmanuel Dreyfus All rights reserved. Copyright (C) 2004 SuSE Linux AG, Nuernberg, Germany. Contributed by: Michal Ludvig <mludvig@suse. cz>, SUSE Labs All rights reserved. Copyright 2000 Wasabi Systems, Inc. All rights reserved. Copyright (C) 2005 International Business Machines

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				Corporation Copyright (c) 2005 by Trusted Computer Solutions, Inc. All rights reserved. Copyright 2000 Aaron D. Gifford. All rights reserved.
iptables	1.4.20	GPL-2.0-or-later AND Artistic-2.0	<a href="http://developer.andraoid.com/index.html">http://developer.andraoid.com/index.html</a>	(C) 1999-2006 by the netfilter coreteam <coreteam@netfilter.org>: Paul 'Rusty' Russell <rusty@rustcorp.com.au> Marc Boucher <marc+nf@mbsi.ca> James Morris <jmorris@intercode.com.au> Harald Welte <laforge@gnumonks.org> Jozsef Kadlec <kadlec@blackhole.kfki.hu> Copyright © Jan Engelhardt, 2011
iputils	s20121221	GPL-2.0-or-later AND BSD-4- Clause-UC	<a href="http://developer.andraoid.com/index.html">http://developer.andraoid.com/index.html</a>	opyright (c) 1989 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Mike Muuss. Copyright (c) 1983, 1993 The Regents of the University of

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openssl	1.1.0i	OpenSSL	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
pm	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2007, The Android Open Source Project
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speex	1.2 rc1	BSD-3-Clause	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2002-2008 Jean-Marc Valin Copyright (C) 2002 Jean-Marc Valin & David Rowe Copyright (C) 2003 Epic Games Copyright (C) 2003 Epic Games (written by Jean-Marc Valin) Copyright (C) 2004-2006 Epic Games Copyright (C) 2005 Analog Devices Copyright (C) 2005 Jean-Marc Valin, CSIRO, Christopher Montgomery

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src	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	These files are Copyright 2007, 2008 Nuance Communications, but released under the Apache2 License.
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system-media	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2011-2014 The Android Open Source Project
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tremolo	0.07	BSD-3-Clause	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2002-2009, Xiph.org Foundation Copyright (C) 2010, Robin Watts for Pinknoise Productions Ltd All rights reserved.
u-boot15	2015.07- gd46d0cf	GPL-2.0-or-later	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	(C) Copyright 2000 – 2013 Wolfgang Denk, DENX Software Engineering, wd@denx.de.
ueventd	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2010 The Android Open Source Project
vb_effect	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2012 The Android Open Source Project
vb_pga	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2012 The Android Open Source Project
volte (VideoCall)	Android4.4	Apache-2.0 AND MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2010 The Android Open Source Project Copyright 2004- 2006 Aaron

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				Voisine <aaron@voisine.org>
watchdogd	Android4.4	Apache-2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (C) 2012 The Android Open Source Project
webrtc	Android4.4	BSD-3-Clause AND BSL-1.0 AND MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2011 The Chromium Authors. All rights reserved. Copyright (c) 2011 The WebRTC project authors. All Rights Reserved.
wpa_supplicant_8	Android4.4	BSD-3-Clause AND MIT	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright (c) 2002-2013, Jouni Malinen <j@w1.fi> and contributors All Rights Reserved.
zlib	1.2.8	Zlib	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	(C) 1995-2013 Jean-loup Gailly and Mark Adler

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AutoOpts	Unspecified	BSD 3-clause "New" or	<a href="https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts">https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts</a>	

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Berkeley	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://www.berkeley.edu/">http://www.berkeley.edu/</a>	
Berkeley_test	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://www.berkeley.edu/">http://www.berkeley.edu/</a>	
bison	3.0.2, 2.5	GNU General Public License v3.0 or later with Bison exception 2.2	<a href="http://savannah.gnu.org/projects/bison/">http://savannah.gnu.org/projects/bison/</a>	
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Boost C++ Libraries - boost	1.59.0	Boost Software License 1.0	<a href="http://boost.org/">http://boost.org/</a>	
BusyBox	1.24.1, 1.23.2	GNU General Public License v2.0 or later	<a href="http://www.busybox.net">http://www.busybox.net</a>	
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ConvertUTF.h	Unspecified	License for Unicode	<a href="http://unicode.org/">http://unicode.org/</a>	
crda	3.18	ISC License	<a href="http://github.com/idor/crda/">http://github.com/idor/crda/</a>	
Das U-Boot - Universal Bootloader	Unspecified	GNU General Public License v2.0 or later	<a href="http://www.denx.de/wiki/U-Boot/WebHome">http://www.denx.de/wiki/U-Boot/WebHome</a>	
D-Bus	1.10.2	Academic Free License v2.1	<a href="http://www.freedesktop.org/wiki/IntroductionToDBus">http://www.freedesktop.org/wiki/IntroductionToDBus</a>	
dbus-glib	0.104	Academic Free License v2.1	<a href="http://www.freedesktop.org/wiki/Software/dbus">http://www.freedesktop.org/wiki/Software/dbus</a>	
dotzlib	Unspecified	Boost Software License 1.0	<a href="https://github.com/madler/zlib/tree/master/contrib/dotzlib">https://github.com/madler/zlib/tree/master/contrib/dotzlib</a>	
dt-utils	dt-utils_test	GNU General Public License v2.0 or later	<a href="http://www.pengutronix.de/">http://www.pengutronix.de/</a>	
eCryptfs - ecryptfs-userspace	108	GNU General Public License v2.0 or later	<a href="http://sourceforge.net/projects/ecryptfs/">http://sourceforge.net/projects/ecryptfs/</a>	
eudev	Unspecified	GNU General Public License v2.0 or later	<a href="http://github.com/gentoo/eudev/">http://github.com/gentoo/eudev/</a>	

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Filesystem in Userspace	2.9.4	GNU General Public License v2.0 or later	<a href="http://sourceforge.net/projects/fuse/">http://sourceforge.net/projects/fuse/</a>	
gensheloop	Unspecified	GNU Library General Public License v2 or later	<a href="https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts">https://github.com/ShiftMediaProject/gnutls/tree/master/src/libopts</a>	
gkernel - rng-tools	5	GNU General Public License v2.0 or later	<a href="http://sourceforge.net/projects/gkernel/">http://sourceforge.net/projects/gkernel/</a>	
Glib	2.46.0	GNU Library General Public License v2 or later	<a href="https://developer.gnome.org/glib/">https://developer.gnome.org/glib/</a>	
GMP - GNU Multiple Precision Arithmetic Library	6.0.0a	GNU General Public License v2.0 or later	<a href="http://gmplib.org/">http://gmplib.org/</a>	
GNOME Network Manager	1.0.10	GNU General Public License v2.0 or later	<a href="http://www.gnome.org/projects/NetworkManager/">http://www.gnome.org/projects/NetworkManager/</a>	
GNU C Library - glibc	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnu.org/software/libc/libc.html">http://www.gnu.org/software/libc/libc.html</a>	

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GnuTLS	3.3.13	GNU Lesser General Public License v2.1 or later	<a href="http://savannah.gnu.org/projects/gnutls/">http://savannah.gnu.org/projects/gnutls/</a>	
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googlemock	1.7.0	BSD 3-clause "New" or "Revised" License	<a href="http://code.google.com/p/googlemock/">http://code.google.com/p/googlemock/</a>	
Gstreamer	0.10.36	GNU Library General Public License v2 or later	<a href="http://gstreamer.freedesktop.org/modules/">http://gstreamer.freedesktop.org/modules/</a>	
GSTREAMER PLUGINS-BASE	0.10.36	GNU Lesser General Public License v2.1 or later	<a href="http://gstreamer.freedesktop.org/src/gst-plugins-base/">http://gstreamer.freedesktop.org/src/gst-plugins-base/</a>	

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htop	1.0.3	GNU General Public License v2.0 or later	<a href="http://github.com/hishamhm/htop/">http://github.com/hishamhm/htop/</a>	
IDEA_FUNCTION	Unspecified	MIT v2 with Ad Clause License	<a href="https://github.com/ShiftMediaProject/libcrypt/tree/master/cipher">https://github.com/ShiftMediaProject/libcrypt/tree/master/cipher</a>	
imx_usb_loader	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://github.com/boundarydevices/imx_usb_loader/">http://github.com/boundarydevices/imx_usb_loader/</a>	
Info-Zip	3.0	Info-ZIP Updated License	<a href="http://www.info-zip.org/pub/infozip/Zip.html">http://www.info-zip.org/pub/infozip/Zip.html</a>	
iperf	2.0.5	Iperf License	<a href="http://sourceforge.net/projects/iperf/">http://sourceforge.net/projects/iperf/</a>	
IPTables	1.4.21	GNU General Public License v2.0 or later	<a href="http://www.netfilter.org/">http://www.netfilter.org/</a>	
ISC DHCP	4.1.2	ISC License	<a href="http://www.isc.org/software/dhcp/">http://www.isc.org/software/dhcp/</a>	
iw-ct	3.14	ISC License	<a href="http://github.com/greearb/iw-ct/">http://github.com/greearb/iw-ct/</a>	
jquery	Unspecified	MIT License	<a href="http://github.com/jquery/jquery/">http://github.com/jquery/jquery/</a>	
keyutils	1.5.9	GNU General Public License v2.0 or later	<a href="http://people.redhat.com/~dhowells/keyutils/">http://people.redhat.com/~dhowells/keyutils/</a>	

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Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	<a href="http://sites.google.com/site/fullycapable/">http://sites.google.com/site/fullycapable/</a>	
libboost	Unspecified	Boost Software License 1.0		
libbtserviceapi	Unspecified	Unspecified		
libbtserviceapi	Unspecified	Robert Bosch Proprietary		
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libffi	3.2.1	Libffi License	<a href="http://sourceware.org/libffi/">http://sourceware.org/libffi/</a>	
libgcrypt	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnupg.org">http://www.gnupg.org</a>	
libgcrypt_GPL	1.7.6	GNU General Public License v2.0 or later	<a href="https://github.com/ShiftMediaProject/libgcrypt/tree/libgcrypt-1.7.6">https://github.com/ShiftMediaProject/libgcrypt/tree/libgcrypt-1.7.6</a>	
Libgpg-error Lib	1.20	GNU Lesser General	<a href="http://www.gnupg.org/">http://www.gnupg.org/</a>	

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libmnl	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://www.netfilter.org/projects/libmnl/">http://www.netfilter.org/projects/libmnl/</a>	
libmount	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="https://github.com/karelzak/util-linux/tree/master/libmount">https://github.com/karelzak/util-linux/tree/master/libmount</a>	
libndp	libndp_test1	GNU Lesser General Public License v2.1 or later	<a href="http://libndp.org/">http://libndp.org/</a>	
libnftnl	Unspecified	GNU General Public License v2.0 or later	<a href="http://www.netfilter.org/projects/libnftnl/">http://www.netfilter.org/projects/libnftnl/</a>	
libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	<a href="http://www.infradead.org/~tgr/libnl/">http://www.infradead.org/~tgr/libnl/</a>	
libnl - Netlink Library	1.1	GNU Lesser General	<a href="http://www.infradead.org/~tgr/libnl/">http://www.infradead.org/~tgr/libnl/</a>	

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libsmartcols	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="https://github.com/karelzak/util-linux/tree/master/libsmartcols">https://github.com/karelzak/util-linux/tree/master/libsmartcols</a>	
libsocketcan	0.0.10	GNU Lesser General Public License v2.1 or later	<a href="http://www.pengutronix.de/software/libsocketcan/download/">http://www.pengutronix.de/software/libsocketcan/download/</a>	
Libtasn1	3.2	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnu.org/software/libtasn1/">http://www.gnu.org/software/libtasn1/</a>	
libtopas_test	Unspecified	Robert Bosch Proprietary		
libtopasapidtsi	Unspecified	Robert Bosch Proprietary		
libusb	1.0.18	GNU Lesser General Public License v2.1 or later	<a href="http://sourceforge.net/projects/libusb/">http://sourceforge.net/projects/libusb/</a>	
libuuid	Unspecified	BSD 3-clause "New"	<a href="https://github.com/karelzak/util-linux/tree/master/libuuid">https://github.com/karelzak/util-linux/tree/master/libuuid</a>	

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libzip	1.0.1	BSD 3-clause "New" or "Revised" License	<a href="http://www.nih.at/libzip/">http://www.nih.at/libzip/</a>	
Linux Kernel	4.0.9	GNU General Public License v2.0 only	<a href="http://www.kernel.org/">http://www.kernel.org/</a>	
Linux Kernel	4.0.9	GNU General Public License v2.0 only	<a href="http://www.kernel.org/">http://www.kernel.org/</a>	
Logging Framework for C++	1.1.2	Apache License 2.0	<a href="http://sourceforge.net/projects/log4cplus/">http://sourceforge.net/projects/log4cplus/</a>	
Logging Framework for C++	1.1.2	Apache License 2.0	<a href="http://sourceforge.net/projects/log4cplus/">http://sourceforge.net/projects/log4cplus/</a>	
Logrotate Utility	3.9.1	GNU General Public License v2.0 or later	<a href="https://fedorahosted.org/logrotate/">https://fedorahosted.org/logrotate/</a>	
lrzsz	0.12.20	GNU General Public License v2.0 or later	<a href="http://www.ohse.de/uwe/software/lrzsz.html">http://www.ohse.de/uwe/software/lrzsz.html</a>	

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luafilesystem	v_1_6_3	MIT License	<a href="http://github.com/keplerproject/luafilename/">http://github.com/keplerproject/luafilename/</a>	
Minicom	2.6.2	GNU General Public License v2.0 or later	<a href="http://alioth.debian.org/projects/minicom/">http://alioth.debian.org/projects/minicom/</a>	
mtd-utils	1.5.2	GNU General Public License v2.0 or later	<a href="http://git.infradead.org/mtd-utils.git">http://git.infradead.org/mtd-utils.git</a>	
ncurses	5.9	X11 License	<a href="https://www.gnu.org/software/ncurses/ncurses.html">https://www.gnu.org/software/ncurses/ncurses.html</a>	
Nettle	2.7.1	GNU Lesser General Public License v2.1 or later	<a href="http://www.lysator.liu.se/~nisse/nettle/">http://www.lysator.liu.se/~nisse/nettle/</a>	
NYS_Library	Unspecified	GNU Library General Public License v2 or later	<a href="https://github.com/stevenylai/ralink_sdk/blob/master/source/user/eatables-v2.0.9-2/getethertype.c">https://github.com/stevenylai/ralink_sdk/blob/master/source/user/eatables-v2.0.9-2/getethertype.c</a>	
OpenSSH	7.1p2	BSD 2-clause "Simplified" License	<a href="http://www.openssh.com/portable.html">http://www.openssh.com/portable.html</a>	
OpenSSL	1.0.2e	OpenSSL Combined License	<a href="http://www.openssl.org/">http://www.openssl.org/</a>	
opkg	0.3.0	GNU General	<a href="https://git.yoctoproject.org/cgit/cgit.cgi/opkg/">https://git.yoctoproject.org/cgit/cgit.cgi/opkg/</a>	

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		Public License v2.0 or later		
PCRE	8.32	PCRE 5 License	<a href="http://sourceforge.net/projects/pcre/">http://sourceforge.net/projects/pcre/</a>	
PCSC Lite	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://pcsc-lite.alioth.debian.org/">http://pcsc-lite.alioth.debian.org/</a>	
Popt	1.15	X11 License	<a href="http://freshmeat.net/projects/popt/">http://freshmeat.net/projects/popt/</a>	
ppp - Pauls PPP Package	Unspecified	GNU General Public License v2.0 or later	<a href="http://ppp.samba.org/ppp/index.html">http://ppp.samba.org/ppp/index.html</a>	
ppp - Pauls PPP Package	2.4.7	GNU General Public License v2.0 or later	<a href="https://ppp.samba.org/index.html">https://ppp.samba.org/index.html</a>	
protobuf	2.5.0	BSD 3-clause "New" or "Revised" License	<a href="http://code.google.com/p/protobuf/">http://code.google.com/p/protobuf/</a>	
ReadLine Front-End	Unspecified	GNU General Public License v2.0 or later	<a href="https://github.com/issue/readline/tree/master/examples/rife">https://github.com/issue/readline/tree/master/examples/rife</a>	
rsync	2.6.9	GNU General Public License v2.0 or later	<a href="http://samba.anu.edu.au/rsync/">http://samba.anu.edu.au/rsync/</a>	
S Trace	4.10	BSD 3-clause	<a href="http://sourceforge.net/projects/strace/">http://sourceforge.net/projects/strace/</a>	

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

		"New" or "Revised" License		
siphash	Unspecified	Public Domain	<a href="http://github.com/dchest/siphash/">http://github.com/dchest/siphash/</a>	
smhasher	3090200	Public Domain	<a href="http://code.google.com/p/smhasher/">http://code.google.com/p/smhasher/</a>	
SQLite	3090200	Public Domain	<a href="http://www.hwaci.com/sw/sqlite/index.html">http://www.hwaci.com/sw/sqlite/index.html</a>	
squashfs-tools	4.3	GNU General Public License v2.0 or later	<a href="http://github.com/plougher/squashfs-tools/">http://github.com/plougher/squashfs-tools/</a>	
systemd	228	GNU Lesser General Public License v2.1 or later	<a href="http://freedesktop.org/wiki/Software/systemd/">http://freedesktop.org/wiki/Software/systemd/</a>	
Tiny Asynchronous DNS lookup library	Unspecified	Beerware License	<a href="http://sourceforge.net/projects/adns/">http://sourceforge.net/projects/adns/</a>	
TLSF	1.9	Public Domain	<a href="http://tlsf.baisoku.org">http://tlsf.baisoku.org</a>	
UBIFS	Unspecified	GNU General Public License v2.0 or later	<a href="http://www.linux-mtd.infradead.org/doc/ubifs.html">http://www.linux-mtd.infradead.org/doc/ubifs.html</a>	
uClibc - A C Library for Embedded Linux	0.9.30.3	GNU Lesser General Public License v2.1 or later	<a href="http://www.uclibc.org/">http://www.uclibc.org/</a>	
USB Utils	007	GNU General Public License v2.0 or later	<a href="https://www.kernel.org/pub/linux/utils/usb/usbutils/">https://www.kernel.org/pub/linux/utils/usb/usbutils/</a>	

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

USB-DFU	1.0	GNU General Public License v2.0 or later	<a href="http://www.usb.org/home">http://www.usb.org/home</a>	
usbnet	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://www.linux-usb.org/usbnet/">http://www.linux-usb.org/usbnet/</a>	
Util-Linux	2.27.1	GNU General Public License v2.0 or later	<a href="http://freshmeat.net/projects/util-linux/">http://freshmeat.net/projects/util-linux/</a>	
util-unix-ng	Unspecified	GNU General Public License v2.0 or later	<a href="http://userweb.kernel.org/~kzak/util-linux-ng/">http://userweb.kernel.org/~kzak/util-linux-ng/</a>	
Wide_Project	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://www.wide.ad.jp/index.html">http://www.wide.ad.jp/index.html</a>	
wireless-tools	30	GNU General Public License v2.0 or later	<a href="http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html">http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html</a>	
wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.5	BSD 3-clause "New" or "Revised" License	<a href="http://hostap.epitest.fi/wpa_supplicant/">http://hostap.epitest.fi/wpa_supplicant/</a>	
XZ Utils	5.0.4	Public Domain	<a href="http://tukaani.org/xz/">http://tukaani.org/xz/</a>	

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

yajl	Unspecified	ISC License	<a href="http://github.com/lloyd/yajl/">http://github.com/lloyd/yajl/</a>	
yajl	2.1.0	ISC License	<a href="http://github.com/lloyd/yajl/">http://github.com/lloyd/yajl/</a>	
zlib	1.2.8,1.1.3	zlib License	<a href="http://www.zlib.net">http://www.zlib.net</a>	

### 3.8.Supplier: Nuance

Supplier: Nuance				
Component	Version	License	Home Page	Copyright
PCRE		BSD 3-Clause "New" or "Revised" License		

### 3.9.Supplier : OMRON

Supplier: OMRON				
Component name	Version	License	Homepage	Copyright
SimString	1	The BSD license	<a href="http://www.chokkan.org/software/simstring/">http://www.chokkan.org/software/simstring/</a>	Copyright (c) 2009,2010 Naoaki Okazaki All rights reserved.

### 3.10.Supplier : Real\_VNC\_3\_2

Supplier: Real_VNC_3_2				
Component name	Version	License	Homepage	Copyright
aclocal and pkg.m4	aclocal 1.11.1	Free Software Foundation - MIT Style License GPL2.0+ with Autoconf exception		Copyright © 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 FreeSoftware Foundation, Inc. Copyright © 2004 Scott James Remnant < <a href="mailto:scott@netsplit.com">scott@netsplit.com</a> >.
AES		Brian Gladman		Copyright © 2003 Dr Brian Gladman, Worcester, UK.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

		3-Clause License or GPL		
Android Support Libraries	19.0.0	Apache License 2.0		Copyright (c) 2005-2008, The Android Open Source Project
ath9k_faf1dc64_backport.patch		GNU General Public License v2.0 or later		Copyright © 2014 Rajkumar Manoharan.
axTLS (SHA1 only)	1.1.8	BSD 3-Clause "New" or "Revised" License		Copyright © 2007 Cameron Rich. See section 7.7.1
Base64.java	2.3.7	Public domain	<a href="http://iharder.sourceforge.net/current/java/base64">http://iharder.sourceforge.net/current/java/base64</a>	
compat-wireless	1027gd46416c-p	GNU General Public License v2.0 or later		
EAX		Brian Gladman License		Copyright © 1998-2010 Dr Brian Gladman, Worcester, UK.
Endian		Brian Gladman 3-Clause License		Copyright © 2003 Dr Brian Gladman, Worcester, UK.
expat	2.0.1	MIT License		Copyright © 1998,1999, 2000 Thai Open Source Software center Ltd and Clark Cooper. Copyright © 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.
ExtractMpegFramesTest.java		Apache License 2.0	<a href="http://bigflake.com/mediacodec/ExtractMpegFramesTest.java.txt">http://bigflake.com/mediacodec/ExtractMpegFramesTest.java.txt</a>	Copyright 2013, The Android Open Source Project
FreeType	2.5.5	FreeType Project license	<a href="http://www.freetype.org">www.freetype.org</a>	Portions of this software are copyright © 2006 The FreeType Project
GCC libstdc++	4.1.2 4.4.5	GNU General Public License	<a href="http://gcc.gnu.org/libstdc++">http://gcc.gnu.org/libstdc++</a>	Copyright © 1994 to 2009 Free Software Foundation, Inc.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

		v2.0 or later		
Internal Android OS APIs	android2.3.3_r1 android4.0.1_r1 android4.1.1_r1 android4.2.1_r1 android4.3_r1 android4.4_r1	Apache License 2.0		Copyright 2005-2013, The Android Open Source Project
JRTPLIB	3.9.1	MIT License	<a href="http://research.edm.uhasselt.be/~jori/">http://research.edm.uhasselt.be/~jori/</a>	
JThread	1.3.1	MIT License	<a href="http://research.edm.uhasselt.be/~jori/">http://research.edm.uhasselt.be/~jori/</a>	Copyright © 1999-2011 Ross Bencina and Phil Burk
keysymdef		MIT open group variant license Digital equipment license	/main/28	Copyright © 1987, 1994, 1998 The Open Group. Copyright © 1987 by Digital Equipment Corporation, Maynard, Massachusetts.
libjpegturbo	1.2.1	libjpeg license	<a href="http://sourceforge.net/projects/libjpegturbo/">http://sourceforge.net/projects/libjpegturbo/</a>	Copyright © 1991-2011 Thomas G. Lane, Guido Vollbeding, Pierre Ossman for Cendio AB, and D. R. Commander
libpng	1.2.52	libpng license		Copyright © 2004 and 2006-2014 Glenn Randers-Pehrson
LibTomCrypt	1.16	Public domain	<a href="http://libtom.org">http://libtom.org</a>	
LibTomMath	0.39	Public domain	<a href="http://libtom.org">http://libtom.org</a>	
libudev	142 and 150	GNU Lesser General Public License v2.1 or later	<a href="http://www.kernel.org/pub/linux/utils/kernel/hotplug">http://www.kernel.org/pub/linux/utils/kernel/hotplug</a>	Copyright © 2008-2010 Key Sievers <key.sievers@vrfy.org> Copyright © 2009 Alan Jenkins <alanjenkins@tuffmail.co.uk>
libupnp (pupnp)	1.6.19	BSD 3-Clause "New" or "Revised" License		Copyright (c) 2000-2003 Intel Corporation. Copyright (c) 2005-2006 Rémi Turbault <r3mi@users.sourceforge.net>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

				Copyright (c) 2006 Michel Pfeiffer and others <virtual_worlds@gmx.de>. Copyright (c) 2011-2012 France Telecom.
libusb	1	GNU Lesser General Public License v2.1 or later		
libusbx	1.0.12	GNU Lesser General Public License v2.1 or later		Copyright © 2001 Johannes Erdfelt <johannes@erdfelt.com> Copyright © 2007-2009 Daniel Drake <dsd@gentoo.org> Copyright © 2008-2011 Nathan Hjelm <hjelmn@users.sourceforge.net> Copyright © 2009-2012 Pete Batard <pete@akeo.ie> Copyright © 2010-2012 Michael Plante <michael.plante@gmail.com> > Copyright © 2011-2012 Hans de Goede <hdegoede@redhat.com> Copyright © 2012 Martin Pieuchot <mpi@openbsd.org> Copyright (C) 1994, 1995, 1996, 1999, 2000, 2001, 2002, 2004, 2005, 2006 Free Software Foundation, Inc.
libxml2	2.9.1	MIT License		Copyright © 1998-2012 Daniel Veillard
libzip	0.9	Free Software Foundation		Copyright © 1999-2008 Dieter Baron and Thomas Klausner Copyright © 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Free Software

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

				Foundation, Inc Copyright © 1987, 1993 The Regents of the University of California
LodePNG	20141130	Zlib license		Copyright © 2005-2014 Lode Vandevenne.
miniupnpc	1.5	Zlib license		Copyright © 2005-2009 and 2005-2011 Thomas Bernard
miniupnpc	1.5	BSD 3-Clause "New" or "Revised" License		Copyright © 2005-2009 and 2005-2011 Thomas Bernard. See section 7.1.20
mxcfb.h		GNU Lesser General Public License v2.1 or later		Copyright 2004-2010 Freescale Semiconductor Inc. All rights reserved.
OpenSSL	0.9.8zf	The OpenSSL Project license		Copyright © 1998-2011 The OpenSSL Project. See section 7.1.3.1. Copyright © 1995-1998 Eric Young. See section 7.1.3.2.
portaudio	19	MIT	<a href="http://www.portaudio.com/">http://www.portaudio.com/</a> .	Copyright © 1999-2011 Ross Bencina and Phil Burk.
portaudio	19	MIT License	<a href="http://www.portaudio.com/">http://www.portaudio.com/</a> .	Copyright © 1999-2011 Ross Bencina and Phil Burk.
pythonpsutil_2.1.3.bb	FSL Community BSP 1.6 (Daisy)	MIT license		Copyright © 2012-2014 Otavio Salvador.
Qt libraries	ARM builds: 4.7.1. Non-ARM builds: 4.6.2.	GNU Lesser General Public License v2.1 or later		Copyright © 2009-2011 Nokia Corporation and/or its subsidiary(-ies). Nokia, Qt and their respective logos are trademarks of Nokia Corporation in Finland and/or other countries worldwide.
SHA	38969	Dr Brian Gladman license Cameron Rich license		Copyright © 2002 Dr Brian Gladman, Worcester, UK
wpa_supplicant	2.3	BSD 3-Clause		Copyright © 2002-2014 Jouni Malinen and contributors.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

		"New" or "Revised" License		
X Windows	XFree86 1.9	The Open group license Digital Equipment cooperation license Digital Equipment Corporation - Panoramix components		Copyright © 1987, 1988, 1989, 1998 The Open Group. See section 7.1.1.1. Copyright © 1987, 1988, 1989 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.2. Copyright © 1991, 1997 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.3
Zlib	1.1.4	Zlib license		Copyright © 1995-2002 Jean-loup Gailly and Mark Adler. See section 7.1.2.
Zlib	1.2.3	Zlib license		Copyright © 1995-2005 Jean-Loup Gailly and Mark Adler.

### 3.11.Supplier : Redbend\_SWM

Supplier: Redbend_SWM				
Component	Version	License	Home Page	Copyright
action	0.1.1	Apache License 2.0	<a href="http://repo1.maven.org/maven2/com/nin/g/metrics/action/">http://repo1.maven.org/maven2/com/nin/g/metrics/action/</a>	
Android - platform - dalvik	2.1_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android SDK Support Libraries	19	Apache License 2.0	<a href="https://developer.android.com/tools/sup-ports-library/index.html">https://developer.android.com/tools/sup-ports-library/index.html</a>	
Android SDK Support Libraries	23.1.1	Apache License 2.0	<a href="https://developer.android.com/tools/sup-ports-library/index.html">https://developer.android.com/tools/sup-ports-library/index.html</a>	
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/">http://mirrors.ibiblio.org/maven2/org/drools/droolsscorecards/</a>	
mongolduu	master-20121109	Apache License 2.0	<a href="http://github.com/tugstugi/mongolduu/">http://github.com/tugstugi/mongolduu/</a>	
Stan-for-Android	0.1.0	Apache License 2.0	<a href="http://github.com/Label305/Stan-forAndroid/">http://github.com/Label305/Stan-forAndroid/</a>	
doT	1.0.1	MIT License	<a href="http://github.com/olado/doT/">http://github.com/olado/doT/</a>	
jquery	2.0.3	MIT License	<a href="http://github.com/jquery/jquery/">http://github.com/jquery/jquery/</a>	

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

jquery_mobile_rails	1.3.2	MIT License	<a href="http://rubygems.org/gems/jquery_mobile_rails">http://rubygems.org/gems/jquery_mobile_rails</a>
SafeSlinger-Android	1.8.3-messenger	MIT License	<a href="http://github.com/SafeSlingerProject/SafeSlinger-Android/">http://github.com/SafeSlingerProject/SafeSlinger-Android/</a>
OpenSSL	Generic Version	OpenSSL Combined License	<a href="http://www.openssl.org/">http://www.openssl.org/</a>
CRC32 MIT.edu	Generic Version	Public Domain	<a href="http://web.mit.edu/">http://web.mit.edu/</a>
SHA-1 in C	9/1/2001	Public Domain	<a href="http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1">http://www.mirrors.wiretapped.net/security/cryptography/hash es/sha1</a>
SyncML C Toolkit	4.0.3	SyncML License	<a href="http://sourceforge.net/projects/syncmlctoolkit/">http://sourceforge.net/projects/syncmlctoolkit/</a>

### 3.12.Supplier : Redbend

<b>Supplier: Redbend</b>				
<b>Component</b>	<b>Version</b>	<b>License</b>	<b>Home Page</b>	<b>Copyright</b>
7 Zip - LZMA SDK	9.2	Public Domain	<a href="http://www.7-zip.org/sdk.html">http://www.7-zip.org/sdk.html</a>	
7 Zip - LZMA SDK	4.01	Public Domain.	<a href="http://sourceforge.net/projects/sevenzips/">http://sourceforge.net/projects/sevenzips/</a>	
Android - platform - bootable - recovery	4.2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
Android - platform - system - core	4.2	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	
bsdifff	4.3	BSDiff license	<a href="http://github.com/geraldonetto/bsdifff/">http://github.com/geraldonetto/bsdifff/</a>	
CMarkup	11.05	Acquired CMarkup Developer License	<a href="http://www.firstobject.com/dn_markup.htm">http://www.firstobject.com/dn_markup.htm</a>	
CRC table (Autogen)	Has no version number	Public Domain	<a href="http://en.wikipedia.org/wiki/Cyclic_redundancy_check">http://en.wikipedia.org/wiki/Cyclic_redundancy_check</a>	
Filesystem in Userspace	2.8.5	BSD 2-clause "Simplified" License	<a href="http://sourceforge.net/projects/fuse/">http://sourceforge.net/projects/fuse/</a>	
Filesystem in Userspace	2.9.3	GNU Lesser General Public License v2.1 or later	<a href="http://sourceforge.net/projects/fuse/">http://sourceforge.net/projects/fuse/</a>	
FreeBSD	2.2.2	BSD 4-clause "Original" or "Old" License	<a href="http://www.freebsd.org">http://www.freebsd.org</a>	
Freescale Semiconductor CodeWarrior Development	2.10 special edition	Commercial license		

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Studio for MPC55xx/MPC56xx				
GNU C Library - glibc	2.2.4	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnu.org/software/libc/libc.html">http://www.gnu.org/software/libc/libc.html</a>	
Lawicel CAN USB sample code	0.1.8	Lawicel CAN USB sample code license	<a href="http://www.can232.com/?page_id=75">http://www.can232.com/?page_id=75</a>	
libdivsufsort	2.0.0	MIT License	<a href="http://code.google.com/p/libdivsufsort/">http://code.google.com/p/libdivsufsort/</a>	
lz4	94	BSD 2-clause "Simplified" License	<a href="http://code.google.com/p/lz4/">http://code.google.com/p/lz4/</a>	
LZO real-time data compression library	2.04	Acquired commercial license	<a href="http://www.oberhumer.com/opensource/lzo/">http://www.oberhumer.com/opensource/lzo/</a>	
MSDN Sample Code	vs.85	Microsoft Limited Public License (Ms-LPL)	<a href="http://msdn.microsoft.com/en-US/windows/">http://msdn.microsoft.com/en-US/windows/</a>	
NetBSD	6	BSD 3-clause "New" or "Revised" License	<a href="http://www.netbsd.org/">http://www.netbsd.org/</a>	
UCL Data Compression Library	1.03	Acquired commercial license	<a href="http://www.oberhumer.com/opensource/ucl/">http://www.oberhumer.com/opensource/ucl/</a>	
XMLFoundation	Apr-14	MIT License	<a href="http://xmlfoundation.codeplex.com/">http://xmlfoundation.codeplex.com/</a>	
zlib	1.2.3	zlib License	<a href="http://www.zlib.net">http://www.zlib.net</a>	

### 3.13.Supplier : Teseo

Supplier: Teseo				
Component name	Version	License	Homepage	Copyright
FATFS				

### 3.14.Supplier : SK\_telecom

Supplier: SK_telecom				
Component name	Version	License	Homepage	Copyright
aladdin-md5	Unspecified	zlib License	<a href="https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html">https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html</a>	Copyright (C) 1999 Aladdin Enterprises

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Alsa Libraries	Unspecified	GNU Lesser General Public License v2.1 or later	<a href="http://www.alsa-project.org/">http://www.alsa-project.org/</a>	
Android - platform - frameworks - base	android-7.0.0_r1	Apache License 2.0	<a href="https://android.googlesource.com/platform/frameworks/base">https://android.googlesource.com/platform/frameworks/base</a>	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspecified	Apache License 2.0	<a href="https://android.googlesource.com/platform/frameworks/base">https://android.googlesource.com/platform/frameworks/base</a>	
Anti-Grain Geometry	Unspecified	Anti-Grain Geometry Public License	<a href="http://sourceforge.net/projects/vector-agg/">http://sourceforge.net/projects/vector-agg/</a>	Copyright (C) 2002-2005 Maxim Shemanarev
Boost C++ Libraries - boost	Unspecified	Boost Software License - Version 1.0	<a href="http://boost.org/">http://boost.org/</a>	
Code Project - C++ Memory Pool	1	The Code Project Open License (CPOL) 1.02	<a href="http://www.codeproject.com/KB/cpp/MemoryPool.aspx">http://www.codeproject.com/KB/cpp/MemoryPool.aspx</a>	
Curl and Libcurl	Unspecified	curl License	<a href="http://github.com/curl/curl/">http://github.com/curl/curl/</a>	Copyright (C) 1998 - 2011, Daniel Stenberg
gecko-dev	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://github.com/mozilla/gecko-dev/">http://github.com/mozilla/gecko-dev/</a>	(C) 2002 Jean-Marc Valin
gpclib	Unspecified	Commercial License	<a href="http://github.com/rdpeng/gpplib/">http://github.com/rdpeng/gpplib/</a>	Copyright: (C) 1997-2004, Advanced Interfaces Group, University of Manchester.
GSM 06.10 Lossy Speech Compression	Unspecified	GSM License	<a href="http://kbs.cs.tu-berlin.de/~jutta/toast.html">http://kbs.cs.tu-berlin.de/~jutta/toast.html</a>	Copyright 1992, 1993, 1994 by Jutta Degener and Carsten Bormann
GStreamer	Unspecified	GNU Library General Public License v2 or later	<a href="http://gstreamer.freedesktop.org/modules/">http://gstreamer.freedesktop.org/modules/</a>	
jsoncpp	Unspecified	Public Domain or MIT	<a href="http://sourceforge.net/projects/jsoncpp/">http://sourceforge.net/projects/jsoncpp/</a>	Copyright (c) 2007-2010 by Baptiste Lepilleur and The JsonCpp Authors,
libogg	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://xiph.org/ogg/">http://xiph.org/ogg/</a>	Copyright (c) 2002, Xiph.org Foundation
libxml2	Unspecified	MIT license	<a href="http://xmlsoft.org/">http://xmlsoft.org/</a>	
OpenGL-Examples	master - 20141123	zlib License	<a href="http://github.com/progschj/OpenGL-Examples/">http://github.com/progschj/OpenGL-Examples/</a>	Copyright (c) 2012 Jakob Progsch

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pkgconf	Unspecified	ISC License	<a href="http://github.com/pkgconf/pkgconf/">http://github.com/pkgconf/pkgconf/</a>	Copyright (c) 1998 Todd C. Miller
pugixml	Unspecified	MIT license	<a href="http://pugixml.org/">http://pugixml.org/</a>	Copyright (c) 2006-2018 Arseny Kapoulkine
PVRTC Library	Unspecified	Unspecified	<a href="https://www.imgtec.com/developers/powervr-sdk-tools/installers/">https://www.imgtec.com/developers/powervr-sdk-tools/installers/</a>	
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SDL_gfx	Unspecified	zlib License	<a href="http://sourceforge.net/projects/sdlgfx/">http://sourceforge.net/projects/sdlgfx/</a>	
Speex	1.2beta2 dev	BSD 3-clause "New" or "Revised" License	<a href="http://www.speex.org/">http://www.speex.org/</a>	
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Sunrise/set calculator	Unspecified	Public domain	<a href="https://stjarnhimlen.se/comp/sunriset.c">https://stjarnhimlen.se/comp/sunriset.c</a>	
tiny-AES128-C	20141218	Public domain	<a href="http://github.com/kokke/tiny-AES128-C/">http://github.com/kokke/tiny-AES128-C/</a>	
wosh	Unspecified	BSD 3-clause "New" or "Revised" License	<a href="http://code.google.com/p/wosh/">http://code.google.com/p/wosh/</a>	Copyright (C) 2002 Michael Ringgaard. All rights reserved.
zlib	1.2.11	zlib License	<a href="http://www.zlib.net/">http://www.zlib.net/</a>	

### 3.15. Node Modules Components

Sl. No.	Name of OSS Component	Version of OSS Component	Name and Version of License (License text can be found in Appendix below)	More Information
1.	Acl	2.2.53-4co1bv2019.0b1	<b>LGPL-2.1+</b> <u>Other licenses:</u> FSF Public-domain	Copyright © 2011 Andreas Gruenbacher Copyright 1992-2018 Free Software Foundation, Inc.

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2.	Apertis pro-archiv e-keyring	0.2rb1bv20 20.0b1	<b>GPL-2.0+</b>	Copyright: 2012 RBEI Ltd.
3.	Apparmor	2.13.2-10co2bv20 20preb3	<b>GPL-2.0</b> <u>Other licenses:</u> LGPL-2.1 Public-domain X11 MIT GPL-2.0+-with-libtool-exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception FSFAP FSFUL BSD-3-Clause	Copyright 1992-2018 Free Software Foundation, Inc. Copyright (c) Christian Boltz 2018 Copyright (c) 2017 SUSE LINUX GmbH, Nuernberg, Germany. Copyright (c) 2017 Rosetta Contributors and Canonical Ltd 2017 Copyright (c) 2009 Dulmandakh Sukhbaatar Copyright (c) 2008 Dominic Reynolds. Copyright (c) 2006 SUSE Linux Products GmbH, Nuernberg, Germany. Copyright (c) 2006 Novell, Inc. All Rights Reserved. Copyright (c) 1999, 2000, 2001, 2002, 2003 2004, 2005, 2006, 2007 NOVELL (All rights reserved) Copyright (C) 2013 Kshitij Gupta Copyright (C) 2009 John Dong Copyright (C) 2009 Dulmandakh Sukhbaatar Copyright (C) 2007 Andreas Gruenbacher Copyright (C) 2006 Volker Kuhlmann Copyright (C) 2006 SuSE Linux Products GmbH, Nuernberg Copyright (C) 1994 X Consortium Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.
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5.	Audit	2.8.4-3bv2020preb2	<b>GPL-2.0 only</b> <b>LGPL-2.1 only</b> <u>Other licenses:</u> X11 Public-domain MIT GPL-2.0+-with-libtool-exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception GNU Libtool GPL V3 or later with exception FSFUL	<b>Dual License - GPI v2 or later &amp; BSD - 2 Clause</b>  Copyright 2014,2016,2017 Red Hat Inc., Durham, North Carolina. Copyright 2008 FUJITSU Inc. Copyright 2005-18 Steve Grubb Copyright 1992-2017 Free Software Foundation, Inc. Copyright (©) 2011 Emanuele Giaquinta All rights reserved. Copyright (©) 2009-2015 Marc Alexander Lehmann Copyright (c) 2015 Steve Grubb sgrubb@redhat.com Copyright (c) 2011 IBM Corp. All Rights Reserved. Copyright (C) 1994 X Consortium
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7.	base-passwd	3.5.46co1bv2019.0b1	<b>GPL-2.0+</b> <u>Other licenses:</u> GPL-2.0	Copyright: Copyright 1999-2002 Wichert Akkerman Copyright 2007 David Mandelberg Copyright 2002, 2003, 2004, 2005, 2007 Colin Watson Copyright 2002, 2003, 2004 Colin Watson Copyright 2001, 2002 Joey Hess Copyright (C) of this file 2014 Chris Leick Copyright (C) Helge Kreutzmann. Copyright (C) 2010 Software in the Public Interest Copyright (C) 2010 Free Software Foundation, Inc. Copyright (C) 2004 Nicolas FRANCOIS

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8.	Coreutils	6.9-0co11ba1	<b>GPL-2.0+</b> <u>Other licenses:</u> Public-domain GPL V2 or later with autoconf exception GPL-2.0 BSD-3-Clause GFDL-1.2 ISC FSF X11 LGPL-2.1+ GPL V2 or later with bison exception GPL V2 or later with texinfo exception FSFUL	Copyright 1991-2004 Miquel van Smoorenburg Copyright 1989, 1991-2016 Free Software Foundation, Inc. Copyright (c) 1996-1999 by Internet Software Consortium. Copyright (c) 1990, 1993, 1994 The Regents of the University of California. All rights reserved. Copyright (C) 2004, 2006 Simon Josefsson Copyright (C) 2000-2005 Pavel Roskin; Initially written by Tom Tromeu Completely rewritten by Pavel Roskin Copyright (C) 1997, 1998, 1999 Colin Plumb. Copyright (C) 1995-1997, 2000-2006 by Ulrich Drepper Copyright (C) 1994, 1995, 1997, 1998, 1999, 2000 H. Peter Anvin Copyright (C) 1994 X Consortium Copyright (C) 1984 David M. Ihnat
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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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CppSQLite3 - A C++ wrapper around the SQLite3 embedded database library.

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V3.0	03/08/2004	-Initial Version for sqlite3
V3.1	16/09/2004	-Implemented getXXXXField using sqlite3 functions -Added CppSQLiteDB3::tableExists()
V3.2	01/07/2005	-Fixed execScalar to handle a NULL result

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12/07/2007      -Added CppSQLiteDB::IsAutoCommitOn()  
 -Added int64 functions to CppSQLite3Query  
 -Added Name based parameter binding to CppSQLite3Statement.

V3.3              02/14/2019

-Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);  
     CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);  
     CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);  
     CppSQLite3Statement::Step()  
     CppSQLite3Statement::DoTransaction(const char \*str)  
     CppSQLite3Statement::BeginTransaction()  
     CppSQLite3Statement::CommitTransaction()  
     CppSQLite3Statement::RollbackTransaction()  
     CppSQLite3DB::getDB()  
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ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

## 7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

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<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Modified files

07/11/2019 Patched "(URL : <https://github.com/bdarnell/tornado/tree/cython>)" by OBIGO

- gen.py           Fix coroutines in cython-compiled code
- gen\_test.py     Add a compiler directive to get gen\_test (mostly) working when cythonized
- options.py      Work around cython incompatibilities in options.py
- options\_test.py  Work around cython incompatibilities in options.py
- util.py          Make ArgReplacer compatible with cython.
- web\_test.py     Also cythonize as many of the tests as possible.

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#### 4.106.zlib license

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.4, March 14th, 2010

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#### 5. Supplier : Obigo Component:

##### 5.1 vuejs-2.4

Description: Vue is a progressive framework for building user interfaces

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### **5.2 vux-0.1.3**

Description: Mobile web UI Components based on Vue.js and WeUI

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### **5.3 es6-promise-3.3**

Description: A lightweight library that provides tools for organizing asynchronous code

Available under the license: MIT License

Copyright (c): Yehuda Katz, Tom Dale, Stefan Penner and contributors

Terms and Conditions: Refer Section 2.3

### **5.4 Quasar framework – 0.5**

Description: Build responsive SPA, SSR, PWA, Hybrid Mobile Apps and Electron apps, all simultaneously using the same codebase

Available under the license: MIT License

Copyright (c): 2015-present Razvan Stoenescu

Terms and Conditions: Refer Section 2.3

### **5.5 tween.js – 16.6**

Description: JavaScript tweening engine for easy animations

Available under the license: MIT License

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Copyright (c): 2010-2012 Tween.js authors.

Terms and Conditions: Refer Section 2.3

### **5.6 iScroll – 5**

Description: iScroll is a multi-platform javascript scroller

Available under the license: MIT License

Copyright (c): 2014 Matteo Spinelli, cubiq.org

Terms and Conditions: Refer Section 2.3

### **5.7 array-filter -1.0.0**

Description: Array#filter for older browsers

Available under the license: MIT License

Copyright (c): 2013 Julian Gruber <julian@juliangruber.com>

Terms and Conditions: Refer Section 2.3

### **5.8 array-find -1.0.0**

Description: ES6 Array.find ponyfill. Return the first array element which satisfies a testing function

Available under the license: MIT License

Copyright (c): Stefan Duberg <stefanduberg@gmail.com>

Terms and Conditions: Refer Section 2.3

### **5.9 array-from -1.0.0**

Description: A ponyfill for the ES 2015 (ES6) `Array.from()`

Available under the license: MIT License

Copyright (c): Studio B12 GmbH

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Terms and Conditions: Refer Section 2.3

#### **5.10 array-map -0.0.0**

Description: `Array.prototype.map(f)` for older browsers

Available under the license: MIT License

Copyright (c): James Halliday <mail@substack.net>

Terms and Conditions: Refer Section 2.3

#### **5.11 array-shuffle - 1.0.0**

Description: Randomize the order of items in an array

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>

Terms and Conditions: Refer Section 2.3

#### **5.12 countup-1.6.1**

Description: Animates a numerical value by counting to it

Available under the license: MIT License

Copyright (c): Jamie Perkins

Terms and Conditions: Refer Section 2.3

#### **5.13 object-assign-4.1.0**

Description: ES2015 `Object.assign()` ponyfill

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>

Terms and Conditions: Refer Section 2.3

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#### 5.14 photoswipe-4.1

Description: JavaScript image gallery for mobile and desktop

Available under the license: MIT License

Copyright (c): Dmitry Semenov

Terms and Conditions: Refer Section 2.3

#### 5.15 shake.js-1.2.2

Description: Deployment tool for node

Available under the license: MIT License

Copyright (c): Fractal <contact@wearefractal.com>

Terms and Conditions: Refer Section 2.3

#### 5.16 validator – 5.1.0

Description: A library of string validators and sanitizers.

Available under the license: MIT License

Copyright (c):2018 Chris O'Hara <cohara87@gmail.com>

Terms and Conditions: Refer Section 2.3

#### 5.17 webp-support -1.0.3

Description: Webp Support 1.0.3 Package

Available under the license: MIT License

Copyright (c): 2016-present, Airyland

Terms and Conditions: Refer Section 2.3

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

### 5.18 HTML Parser

Description: A Simple HTML Parser

Available under the license: Mozilla Public License , Apache Software License 2.0

Copyright (c): 2004 Erik Arvidsson

Terms and Conditions: Refer Section 2.4, 2.6

### 5.19 acrchiver – 2.1.1

Description: a streaming interface for archive generation

Available under the license: MIT License

Copyright (c): 2012-2014 Chris Talkington

Terms and Conditions: Refer Section 2.3

### 5.20 async – 2.6.3

Description: Higher-order functions and common patterns for asynchronous code

Available under the license: MIT License

Copyright (c): 2010-2018 Caolan McMahon

Terms and Conditions: Refer Section 2.3

### 5.21 bluebird – 3.5.5

Description: Full featured Promises/A+ implementation with exceptionally good performance

Available under the license: MIT License

Copyright (c): 2013-2018 Petka Antonov

Terms and Conditions: Refer Section 2.3 **6.22 cross-npm-spawn-1.1.1**

Description: Cross-platform NPM spawn

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Available under the license: MIT License

Copyright (c): 2016 Leeroy Brun

Terms and Conditions: Refer Section 2.3

### **5.23 extract-zip- 1.7.0**

Description: unzip a zip file into a directory using 100% javascript

Available under the license: BSD-2-Clause License

Copyright (c): 2014 Max Ogden

Terms and Conditions: Refer Section 2.8

### **5.24 fs-extra – 2.1.2**

Description: fs-extra contains methods that aren't included in the vanilla Node.js fs package

Available under the license: MIT License

Copyright (c): 2011-2017 JP Richardson

Terms and Conditions: Refer Section 2.3

### **5.25 iconv-lite – 0.4.24**

Description: Convert character encodings in pure javascript.

Available under the license: MIT License

Copyright (c): 2011 Alexander Shtuchkin

Terms and Conditions: Refer Section 2.3

### **5.26 is-online – 7.0.0**

Description: Check if the internet connection is up

Available under the license: MIT License

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Copyright (c): Sindre Sorhus <sindresorhus@gmail.com>

Terms and Conditions: Refer Section 2.3

### **5.27 json-rpc2 – 1.0.2**

Description: JSON-RPC 2.0 server and client library, with HTTP, TCP and Websocket endpoints

Available under the license: MIT License

Copyright (c): 2009 Eric Florenzano, Ryan Tomayko

Terms and Conditions: Refer Section 2.3

### **5.28 lodash – 4.17.15**

Description: Lodash makes JavaScript easier by taking the hassle out of working with arrays, numbers, objects, strings, etc

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

### **5.29 progress-stream – 2.0.0**

Description: Read the progress of a stream

Available under the license: BSD-2-Clause License

Copyright (c): Tobias Baunbæk <freeall@gmail.com>

Terms and Conditions: Refer Section 2.8

### **5.30 scp2-0.5.0**

Description: A pure javascript scp program based on ssh2

Available under the license: MIT License

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Copyright (c): 2013 Hsiaoming Yang

Terms and Conditions: Refer Section 2.3

### **5.31 ssh2 – 0.5.5**

Description: SSH2 client and server modules written in pure JavaScript for node.js

Available under the license: MIT License

Copyright (c): Brian White

Terms and Conditions: Refer Section 2.3

### **5.32 sshpk – 1.16.1**

Description: A library for finding and using SSH public keys

Available under the license: MIT License

Copyright (c): Joyent, Inc

Terms and Conditions: Refer Section 2.3

### **5.33 targz – 1.0.1**

Description: TarGz for NodeJS

Available under the license: MIT License

Copyright (c): Miska Kaipiainen <miska.kaipiainen@gmail.com>

Terms and Conditions: Refer Section 2.3

### **5.34 vboxmanage.js – 1.0.6**

Description: A wrapper for VirtualBox CLI with Promises

Available under the license: MIT License

Copyright (c): 2016 Daniel Cohen Gindi

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Terms and Conditions: Refer Section 2.3

### 5.35 xml2js – 0.4.23

Description: Simple XML to JavaScript object converter. It supports bi-directional conversion

Available under the license: MIT License

Copyright (c): 2010, 2011, 2012, 2013. All rights reserved.

Terms and Conditions: Refer Section 2.3

### 5.36 requirejs – 2.1.1

Description: RequireJS loads plain JavaScript files as well as more defined modules

Available under the license: MIT License

Copyright (c): jQuery Foundation

Terms and Conditions: Refer Section 2.3

### 5.37 semver – 2.1.0

Description: The semantic version parser used by npm

Available under the license: ISC License

Copyright (c): Isaac Z. Schlueter

Terms and Conditions: Refer Section 2.9

### 5.38 SlowAES – 0.1a1

Description: Implementations of AES in pure scripting languages

Available under the license: Apache License

Copyright (c): Josh Davis

Terms and Conditions: Refer Section 2.6

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

#### **5.39 which – 1.0.5**

Description: Like which(1) unix command. Find the first instance of an executable in the PATH.

Available under the license: ISC License

Copyright (c): Isaac Z. Schlueter

Terms and Conditions: Refer Section 2.3

#### **5.40 eventemitter2-1.0.0**

Description: A Node.js event emitter implementation with namespaces, wildcards, TTL and browser support

Available under the license: MIT License

Copyright (c): 2016 Paolo Fragomeni

Terms and Conditions: Refer Section 2.3

#### **5.41 moment.js – 2.24.0**

Description: A lightweight JavaScript date library for parsing, validating, manipulating, and formatting dates

Available under the license: MIT License

Copyright (c): JS Foundation

Terms and Conditions: Refer Section 2.3

#### **5.42 bootstrap – 2.3.1**

Description: Front-end framework for developing responsive, mobile first projects on the web

Available under the license: MIT License

Copyright (c): 2011-2018 Twitter, Inc.

Copyright (c): 2011-2018 The Bootstrap Authors

Terms and Conditions: Refer Section 2.3

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#### 5.43 flexbuffers – 1.7.1

Description: FlatBuffers is an efficient cross platform serialization library for games and other memory constrained apps. It allows you to directly access serialized data without unpacking/parsing it first, while still having great forwards/backwards compatibility.

Available under the license: Apache 2.0

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### 5.44 etch – 1.4.0

Description: A cross-platform, language- and transport-independent framework for building and consuming network services

Available under the license: Apache license, v2

Copyright (C) 2012 BMW Car IT GmbH

Terms and Conditions: Refer Section 2.6

#### 5.45 CppSQLite -C++ Wrapper for SQLite – 3.2

Description: CppSQLite3 - A C++ wrapper around the SQLite3 embedded database library

Available under the license: CPOL 1.02

Copyright (c): 2004..2007 Rob Groves. All Rights Reserved. rob.groves@btinternet.com

Terms and Conditions: Refer Section 2.16

#### 5.46 afl-fuzz-2.31b

Description: Tool for in-process and out-of-process (fork) coverage-guided fuzz testing (fuzzing). Similar to libFuzzer.

Available under the license: Apache 2.0 License

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### **5.47 android crazy linker**

Description: Fork of the Android NDK crazy linker.

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium Authors

Terms and Conditions: Refer 2.26

#### **5.48 platform\_system\_core**

Description: libsync helper library.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer 2.6

#### **5.49 angle-master\_2014-10-03**

Description: ANGLE is a conformant implementation of the OpenGL ES 2.0 specification that is hardware-accelerated via Direct3D.

Available under the license: BSD 3 License

Copyright (c): 2002-2013 The ANGLE Project Authors.

Terms and Conditions: Refer Section 2.5

#### **5.50 Blink**

Description: Contains the public API for Blink. The API consists of a number of C++ header files, scripts, and GYP build files. We consider all other files in Blink to be implementation details, which are subject to change at any time

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

without notice.

Available under the license: LGPL 2.1

Copyright (c): 2014 The Chromium Authors.

Terms and Conditions: Refer Section - 2.14

### 5.51 boringssl-master

Description: This is BoringSSL, a fork of OpenSSL. See

<https://www.imperialviolet.org/2014/06/20/boringssl.html>

Available under the license: BSD 3 License

Copyright (c):

Terms and Conditions: Refer Section - 2.22

### 5.52 breakpad-origin/chrome\_53

Description: An open-source multi-platform crash reporting system

URL: <https://chromium.googlesource.com/breakpad/breakpad>

Available under the license: BSD 3, Apple PSL 2.0 and Apache 2.0 License

Copyright (c): 2006, Google Inc.

Terms and Conditions: Refer Section 2.5, 2.24, 2.6

Source Code : <https://chromium.googlesource.com/chromium/src+/refs/tags/55.0.2883.75/breakpad/LICENSE>

### 5.53 brotli-v0.4.0

Description: Brotli is a generic byte-level compression algorithm that is used at the

byte-compression level in WOFF 2.0 font file format. This library is used

to decode WOFF 2.0 fonts.

Available under the license: MIT License

Copyright (c): 2009, 2010, 2013-2015 by the Brotli Authors.

Terms and Conditions: Refer Section 2.3

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.54 catapult-0.1.0-alpha-1**

Description: Catapult is the home for several performance tools that span from gathering, displaying and analyzing performance data.

Available under the license: BSD 3 License

Copyright (c): 2015 The Chromium Authors

Terms and Conditions: Refer Section 2.5

**5.55 cacheinvalidation-master\_2014-09-04**

Description: This is the API to talk to the Google Cache Invalidation service, used by the invalidations consumed by Sync, Enterprise Policy, and other services. It was previously hosted at <http://code.google.com/p/google-cache-invalidation-api/> but was merged into the Chromium repository at r342.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

**5.56 cld2-master\_2017-12-14**

Description: The CLD is used to determine the language of text. In Chromium, this is used to determine if Chrome should offer Translate UX to the user.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

**5.57 fontconfig-2.11.0**

Description: Fontconfig is a library for configuring and customizing font access.

Available under the license: MIT License

Copyright (c): 2012 Google, Inc.

Terms and Conditions: Refer Section 2.3

**5.58 compact\_encoding\_detection**

Description: Compact Encoding Detection(CED for short) is a library written in C++ that

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

scans given raw bytes and detect the most likely text encoding.

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

#### **5.59 cld3-2f6624f0a6d6fd8f76bdcae38558c73d23ebec1e**

Description: CLD3 is a neural net model for detecting the language of text.

Available under the license: Apache 2.0 License

Copyright (c): 2016 Google Inc.

Terms and Conditions: Refer Section 2.6

#### **5.60 coveragepy-coverage-4.0.3**

Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.

Available under the license: Apache 2.0 License

Copyright (c): 2004-2015 Ned Batchelder.

Terms and Conditions: Refer Section 2.6

#### **5.61 crashpad-electron-v1.6.12**

Description: Crashpad is a crash-reporting system. It's the successor to Breakpad.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### **5.62 dmg\_fp-master\_2014-05-19**

Description: David M. Gay's floating point routines

Available under the license: MIT License

Copyright (c): 1991, 2000, 2001 by Lucent Technologies.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Terms and Conditions: Refer Section 2.27

#### **5.63 external-chromium\_org-sdch-open-vcdiff-mips-kk-4.4.2\_r1.m1**

Description: open-vcdiff is an encoder and decoder for the VCDIFF format, as described in

[RFC 3284](<http://www.ietf.org/rfc/rfc3284.txt>): The VCDIFF Generic Differencing and Compression Data Format.

Available under the license: Apache 2.0 License

Copyright (c): 2008 The open-vcdiff Authors.

Terms and Conditions: Refer Section 2.6

#### **5.64 flac-1.3.1**

Description: This library is required for the browser to compress and encode recorded audio before sending to Google servers for speech recognition.

Available under the license: BSD 3 License

Copyright (c): 2011-2014 Xiph.Org Foundation

Terms and Conditions: Refer Section 2.5

#### **5.65 flatbuffers-v1.2.0**

Description: FlatBuffers is an efficient cross platform serialization library for games and other memory constrained apps. It allows you to directly access serialized data without unpacking/parsing it first, while still having great forwards/backwards compatibility.

Available under the license: Apache 2.0 License

Copyright (c): 2014 Google Inc

Terms and Conditions: Refer Section 2.6

#### **5.66 freetype2-VER-2-8-1**

Description: This library is required for the browser to compress and encode recorded audio before sending to Google servers for speech recognition

Available under the license: Custom License (Freetype Project License)

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Copyright (c):

Terms and Conditions: Refer Section - 2.12

**5.67 glslang-GoogleGlslang20160218**

Description: An OpenGL and OpenGL ES shader front end and validator.

Available under the license: MIT License

Copyright (c): 2015-2016 The Khronos Group Inc.

Terms and Conditions: Refer Section 2.28

**5.68 googlemock-release-1.7.0**

Description: Google's framework for writing and using C++ mock classes on a variety of platforms (Linux, Mac OS X, Windows, Windows CE, Symbian, etc).

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

**5.69 googletest-release-1.7.0**

Description: Google's framework for writing C++ tests on a variety of platforms (Linux, Mac OS X, Windows, Windows CE, Symbian, etc).

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

**5.70 grpc-v1.4.7**

Description: Chrome's version of the C-version of the gRPC library.

Available under the license: BSD 3 License

Copyright (c): 2015, Google Inc.

Terms and Conditions: Refer Section 2.5

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.71 harfbuzz-1.3.1**

Description: This is harfbuzz-ng, a new implementation of harfbuzz with a different API from the old one.

Available under the license: MIT License

Copyright (c): 2010,2011,2012 Google, Inc.

Terms and Conditions: Refer Section 2.29

**5.72 iccjpeg-32.0.1700.102**

Description: Contain support for ICC color profile on top of jpeg6b (and up) library.

Original author is Tom Lane, from the IJG group.

We include the relevant part of the original IJG licensing term in the file LICENSE.

Available under the license: Custom License

Copyright (c): 1991-1998, Thomas G. Lane.

Terms and Conditions: Refer Section - 2.13

**5.73 icu-release-56-1**

Description: The source code of ICU 56.1 for C/C++.

Available under the license: ICU license

Copyright (c): 1995-2015 International Business Machines Corporation and others.

Terms and Conditions: Refer Section 2.17

**5.74 jsoncpp-svn-release-0.6.0-rc2**

Description: The libjingle/webrtc/liblouis\_nacl uses jsoncpp for signaling message serialization and deserialization. This library is also shipped in NaCl

SDK and used in several examples.

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur

Terms and Conditions: Refer Section 2.3

**5.75 khronos\_headers**

Description: This package contains header files for the EGL and OpenGL ES APIs from

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Khronos. They are used for compiling code against these APIs as well as for generating the GL binding initialization logic.

Available under the license: MIT License, SGI Free Software License B

Copyright (c): 2007-2010 The Khronos Group Inc.

Terms and Conditions: Refer Section 2.3, 2.15

#### 5.76 **leveldb-v1.20**

Description: Alternative to SQLite used as the backend for IndexedDB and internally by the FileSystem API implementation and others.

Available under the license: BSD 3 License

Copyright (c): 2011 The LevelDB Authors. All rights reserved.

Terms and Conditions: Refer Section 2.5

#### 5.77 **libaddressinput-master\_2014-10-07**

Description: This library lets you enter, validate, and display an address with correct semantics for many countries around the world.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

#### 5.78 **libevent-release-1.4.15-stable**

Description: The libevent API provides a mechanism to execute a callback function when a specific event occurs on a file descriptor or after a timeout has been reached.

Available under the license: BSD 3 License

Copyright (c): 2007-2010 Niels Provos and Nick Mathewson

Terms and Conditions: Refer Section 2.5

#### 5.79 **dist-llvm-master\_2010-04-15**

Description: Library for in-process coverage-guided fuzz testing (fuzzing) of other libraries.

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Available under the license: University of Illinois/NCSA Open Source License

Copyright (c): 2003-2015 University of Illinois at Urbana-Champaign.

Terms and Conditions: Refer 2.7

### 5.80 libjpeg-turbo-1.4.90

Description: This libjpeg-turbo also added a new file

jpeglibmangler.h and included it from jpeglib.h that changes the names of all externally visible functions to chromium\_\* so that we can avoid conflicts that arise when system libraries attempt to use our libjpeg.

Changes : Security vulnerability patch applied (CVE-2017-15232)

Available under the license: Custom License (IJG license), BSD 3 License, Zlib License

Copyright (c):

Terms and Conditions: Refer Section 2.30, 2.5, 2.1

### 5.81 libphonenumber-v8.9.8

Description: International Phone Number Library

Available under the license: Apache 2.0 License

Copyright (c): 2014 The Chromium Authors. All rights reserved.

Terms and Conditions: Refer Section 2.6

### 5.82 libpng-v1.6.22beta03

Description: libpng is the official Portable Network Graphics (PNG) reference library (originally called pnglib).

Available under the license: lib png License

Copyright (c): 2000-2002, 2004, 2006-2016 Glenn Randers-Pehrson

Terms and Conditions: Refer Section 2.11

### 5.83 libsrtp-v1.5.2

Description: Libsrtp provides secure media transmission in a real time communication. It's used with libjingle which provides the p2p session setup.

Available under the license: BSD 3 License

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Copyright (c): 2001-2006 Cisco Systems, Inc.

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#### **5.84 libvpx-v1.6.0**

Description: Contains the sources used to compile libvpx binaries used by Google Chrome and Chromium.

Available under the license: BSD 3 License

Copyright (c): 2010, The WebM Project authors. All rights reserved.

Terms and Conditions: Refer Section 2.5

#### **5.85 libwebm-libwebm-1.0.0.27**

Description: libwebm is a library to read and write WebM files. It's used by MediaStream Recording API to multiplex encoded audio and video into a WebM container. Only the writing parts are used for this purpose, the rest is not compiled.

Available under the license: BSD 3 License

Copyright (c): 2010, Google Inc. All rights reserved.

Terms and Conditions: Refer Section 2.5

#### **5.86 libwebp-v0.5.1**

Description: WebP is an image format that does both lossy and lossless compression of digital photographic images. WebP consists of a codec based on VP8, that Google open-sourced in May 2010 and a container based on RIFF. Webmasters, web developers and browser developers can use WebP to compress, archive and distribute digital images more efficiently.

Available under the license: BSD 3 License

Copyright (c): 2010, Google Inc.

Terms and Conditions: Refer Section 2.31

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.87 libxml2-v2.9.5**

Description: libxml2 from libxml.org.

Available under the license: MIT License

Copyright (c): 1998-2012 Daniel Veillard.

Terms and Conditions: Refer Section 2.3

**5.88 libXNVctrl-master\_2018-03-01**

Description: This package provides access to NVidia Control X Extension. It is used to determine the version of the NVIDIA driver in use.

Available under the license: MIT License

Copyright (c): 2008 NVIDIA

Terms and Conditions: Refer Section 2.3

**5.89 libxslt-v1.1.29-rc2**

Description: libxslt from libxml.org.

Available under the license: MIT License

Copyright (c): 1998-2012 Daniel Veillard.

Terms and Conditions: Refer Section 2.3

**5.90 libyuv-v1.0.0**

Description: libyuv is an open source project that includes YUV conversion and scaling functionality.

Available under the license: BSD 3 License

Copyright (c): 2011 The LibYuv Project Authors.

Terms and Conditions: Refer Section 2.5

**5.91 linux\_syscall\_support**

Description: This file includes Linux-specific support functions common to the coredumper and the thread lister; primarily, this is a collection of direct system calls, and a couple of symbols missing from standard header files.

Available under the license: BSD 3 License

Copyright (c): 2005-2011, Google Inc.

Terms and Conditions: Refer Section 2.5

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

### 5.92 minigbm

Description: This contains the graphics buffer allocator library for Chrome OS.

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium OS Authors.

Terms and Conditions: Refer Section 2.5

### 5.93 modp\_b64-master\_2014-10-08

Description: The modp\_b64.c file was modified to remove the inclusion of modp's config.h

and to fix compilation errors that occur under VC8. The file was renamed

modp\_b64.cc to force it to be compiled as C++ so that the inclusion of

basictypes.h could be possible.

Available under the license: BSD 3 License

Copyright (c): 2005, 2006 Nick Galbreath

Terms and Conditions: Refer Section 2.5

### 5.94 mojo-master\_2014-10-08

Description: The Mojo Public API is a binary stable API to the Mojo system.

It consists of support for a number of programming languages (with a directory for each support language), some "build" tools and build-time requirements, and interface definitions for Mojo services (specified using an IDL).

Note that there are various subdirectories named tests/. These contain tests of the code in the enclosing directory, and are not meant for use by Mojo applications.

Available under the license: BSD 3 License

Copyright (c): 2014 The Chromium Authors.

Terms and Conditions: Refer Section 2.5

 <b>BOSCH</b>	OSS Attribution Document	DATE
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.95 mt19937ar-32.0.1700.102**

Description: This is Chrome's locally patched copy of Takuji Nishimura and Makoto

Matsumoto's Mersenne Twister pseudorandom number generator.

Available under the license: BSD 3 License

Copyright (c): 1997 - 2002, Makoto Matsumoto and Takuji Nishimura

Terms and Conditions: Refer Section 2.5

**5.96 native\_client-master\_2014-10-16**

Description: Native Client is a sandbox for running compiled C and C++ code in the browser efficiently and securely, independent of the user's operating system.

Available under the license: BSD 3 License

Copyright (c): 2008, Google Inc.

Terms and Conditions: Refer Section 2.5

**5.97openh264-v1.4.0**

Description: Cisco's H.264 video codec implementation.

Available under the license: BSD 2 License

Copyright (c): 2013, Cisco Systems

Terms and Conditions: Refer Section 2.8

**5.98 opus-v1.1.3**

Description: This library is used by Chrome Remote Desktop and WebRTC for audio stream encoding/decoding.

Available under the license: BSD 3 License

Copyright (c): 2001-2011 Xiph.Org, Skype Limited, Octasic,

Jean-Marc Valin, Timothy B. Terriberry,

CSIRO, Gregory Maxwell, Mark Borgerding,

Erik de Castro Lopo

Terms and Conditions: Refer Section 2.5

**5.99 ots-v5.0.0**

Description:

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

The OpenType Sanitizer (OTS) parses and serializes OpenType files (OTF, TTF) and WOFF and WOFF2 font files, validating them and sanitizing them as it goes.

Available under the license: BSD 3 License

Copyright (c): 2009 The Chromium Authors.

Terms and Conditions: Refer Section 2.5

#### **5.100 ozone-wayland-45.0.2454.37**

Description: Ozone-Wayland is the implementation of Chromium's Ozone for supporting [Wayland](<http://wayland.freedesktop.org/>) graphics system.

Available under the license: BSD 3 License

Copyright (c): 2013 Intel Corporation.

Terms and Conditions: Refer Section 2.5

#### **5.101 pdfium-chromium/3440**

Description: PDF generation and rendering library.

Available under the license: BSD 3 License

Copyright (c): 2014 PDFium Authors.

Terms and Conditions: Refer Section 2.5

#### **5.102 protobuf-v3.0.0-beta-3**

Description: Protocol Buffers (a.k.a., protobuf) are Google's language-neutral, platform-neutral, extensible mechanism for serializing structured data. You can find protobuf's documentation on the Google Developers site.

Available under the license: BSD 3 License

Copyright (c): 2008 Google Inc.

Terms and Conditions: Refer Section 2.32

#### **5.103 qcms**

Description: Contains support for applying an ICC color profile to an image. The code is originally based on tincms, re-written by Mozilla for better security and performance. This copy is a source-drop from Mozilla on March 13, 2012.

Available under the license: MIT License

Copyright (c): 2009 Mozilla Corporation

1998-2007 Marti Maria

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Terms and Conditions: Refer Section 2.3

**5.104 re2-2016-02-01**

Description: RE2 is a fast, safe, thread-friendly alternative to backtracking regular expression engines like those used in PCRE, Perl, and Python.

Available under the license: BSD 3 License

Copyright (c): 2009 The RE2 Authors.

Terms and Conditions: Refer Section 2.5

**5.105 SevenZip-LZMA-15.14**

Description: This contains a part of LZMA SDK 15.14.

Available under the license: Public Domain

Copyright (c):

Terms and Conditions: Refer Section 2.33

**5.106 shaderc-v2018.0**

Description: A collection of SPIR-V related tools/libraries.

Available under the license: Apache 2.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.6

**5.107 skia-v1.60.0**

Description: Skia is an open source 2D graphics library which provides common APIs that work across a variety of hardware and software platforms.

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

**5.108 smhasher-trunk\_2014-04-22**

Description: This is a library containing the MurmurHash3 function, and a hashing function test suite.

Available under the license: MIT License

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Copyright (c): 2011 Google, Inc.

Terms and Conditions: Refer Section 2.3

#### **5.109 snappy-v1.1.0**

Description: Compression library used by LevelDB.

Available under the license: BSD 3 License

Copyright (c): 2011 Google Inc.

Terms and Conditions: Refer Section 2.5

#### **5.110 uriparser-uriparser-0.8.0**

Description: uriparser is a strictly RFC 3986 compliant URI parsing and handling library written in C89 ("ANSI C"). uriparser is cross-platform, fast, supports Unicode

Available under the license: BSD 3 License

Copyright (c): 2007, Weijia Song <songweijia@gmail.com>, 2007, Sebastian Pipping <sebastian@pipping.org>

Terms and Conditions: Refer Section 2.5

#### **5.111 SPIRV-Tools-spirv-1.1-rev1**

Description: The SPIR-V Tools project provides an API and commands for processing SPIR-V modules.

Available under the license: MIT License

Copyright (c): 2015-2016 The Khronos Group Inc.

Terms and Conditions: Refer Section 2.3

#### **5.112 sqlite-version-3.8.4**

Description:

SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine.

Available under the license: Public Domain

Copyright (c):

Terms and Conditions: Refer Section 2.10

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.113 tcmalloc-master\_2012-05-20**

Description: Chromium's locally patched copy of tcmalloc.

Available under the license: BSD 3 License

Copyright (c): 2005, Google Inc.

Terms and Conditions: Refer Section 2.5

**5.114 url\_parse**

Description: The file url\_parse.cc is based on nsURLParsers.cc from Mozilla.

Available under the license: BSD 3 license, MPL 1.1 License

Copyright (c): 2007, Google Inc.

Terms and Conditions: Refer Section - 2.5, 2.4

**5.115 usrsctp-0.9.3.0**

Description: The usrsctplib provides implementation of SCTP protocol which fully supports RFC 2960.

Available under the license: BSD 2 License

Copyright (c): 2001, 2002 Cisco Systems, Inc, 2002-12 Randall R. Stewart, 2002-12 Michael Tuexen

Terms and Conditions: Refer Section 2.8

**5.116 v8-5.6.309.1**

Description: V8 is Google's open source JavaScript engine. V8 implements ECMAScript as specified in ECMA-262.

Available under the license: BSD 3 License

Copyright (c): 2006-2011, the V8 project authors.

Terms and Conditions: Refer Section 2.5

**5.117 VulkanTools-sdk-1.0.8.0**

Description: This simply includes the include files for the Vulkan SDK. Eventually this will just be taken from the build system.

Available under the license: MIT License

Copyright (c): 2015 Valve Corporation

Terms and Conditions: Refer Section 2.3

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

#### 5.118 wayland-protocols

Description: wayland-protocols contains Wayland protocols that adds functionality not available in the Wayland core protocol. Such protocols either adds completely new functionality, or extends the functionality of some other protocol either in Wayland core, or some other protocol in wayland-protocols.

Available under the license: MIT License

Copyright (c): 2008-2013 Kristian Høgsberg

2010-2013 Intel Corporation

2013 Rafael Antognolli

2013 Jasper St. Pierre

2014 Jonas Ådahl

2014 Jason Ekstrand

2014-2015 Collabora, Ltd.

2015 Red Hat Inc.

Terms and Conditions: Refer Section 2.3

#### 5.119 WebGL-master\_2015-01-08

Description: This is a snapshot of the public webgl conformance tests directory on the Github server.

Available under the license: MIT License

Copyright (c):

Terms and Conditions: Refer Section 2.3

#### 5.120 webrtc-builds-9686

Description: WebRTC provides real time voice and video processing functionality to enable the implementation of PeerConnection/MediaStream.

Available under the license: BSD 3 License

Copyright (c): 2011, The WebRTC project authors.

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Terms and Conditions: Refer Section 2.5

**5.121 woff2-a15a8ab86b934cf436f8fac4a8a11ddf8b59d792**

Description: The reference implementation of the WOFF 2.0 web font compression format (<http://www.w3.org/TR/WOFF2/>).

Available under the license: MIT License

Copyright (c):

Terms and Conditions: Refer Section 2.3

**5.122 zlib-1.2.8**

Description: General purpose compression library

Available under the license: Zlib License

Copyright (c):1995-2010 Jean-loup Gailly and Mark Adler

Terms and Conditions: Refer Section 2.1

**5.123 boost\_1\_64\_0**

Description: Boost is a set of libraries for the C++

Available under the license: BSL 1.0 License

Copyright (c):

Terms and Conditions: Refer Section 2.2

**5.124 libjson-c-0.10**

Description: JSON-C implements a reference counting object model that allows you to easily construct JSON objects in C

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur and The JsonCpp Authors

Terms and Conditions: Refer Section 2.3

**5.125 pkg-config-generator**

Description: Simple python (2 or 3) script for generating package config ('pkg-config' or '.pc') files

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Available under the license: MIT License

Copyright (c): 2016 Nii Mante

Terms and Conditions: Refer Section 2.3

**5.126 uriparser-0.8.5**

Description: RFC 3986 URI parsing library

Available under the license: BSD 3 License

Copyright (c): 2007, Weijia Song

2007, Sebastian Pipping

Terms and Conditions: Refer Section 2.5

**5.127 xmlsec1-1.2.24**

Description: XML Security with nss(certificates)

Available under the license: MPL v1.1

Copyright (c):2002-2016 Aleksey Sanin

Terms and Conditions: Refer Section 2.25

**5.128 Tornado-4.1**

Description: Tornado is a Python web framework and asynchronous networking library

Available under the license: Apache License 2.0

Copyright (c): 2017, Obigo

Terms and Conditions: Refer Section 2.20

**5.129 Ujson-1.35**

Description: An ultra fast JSON encoder and decoder written in pure C with bindings for Python 2.5+ and 3.

Available under the license: BSD 3 License

Copyright (c): 2014, Electronic Arts Inc.

Terms and Conditions: Refer Section 2.21

 <b>BOSCH</b>	OSS Attribution Document	DATE
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

### 5.130 Python-2.7.9

Description: Python is a widely used high-level programming language for general-purpose programming

Available under the license: Python License v2.0

Copyright (c):2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,  
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation

Terms and Conditions: Refer Section 2.19

### 5.131 Backports-3.4.0.2

Description: Backports provide greater sanity, and a bit more organization, in the Package Index.

Available under the license: Python License v2.0

Copyright (c):2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,  
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation

Terms and Conditions: Refer Section 2.18

### 5.132 babel-runtime - 6.26.0

Description: The compiler for writing next generation JavaScript.

Available under the license: MIT License

Copyright ©: 2014-present Sebastian McKenzie and other contributors

Terms and Conditions: Refer Section 2.3

### 5.133 core-js-2.5.1

Description: Modular standard library for JavaScript

Available under the license: MIT License

Copyright (c): 2014-2020 Denis Pushkarev

Terms and Conditions: Refer Section 2.3

### 5.134 css-loader-0.25.0

Description: The css-loader interprets @import and url() like import/require() and will resolve them.

Available under the license: MIT License

Copyright ©: JS Foundation and other contributors

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Terms and Conditions: Refer Section 2.3

**5.135 vue-loader-13.7.2**

Description: Webpack loader for Vue Single-File Components

Available under the license: MIT License

Copyright ©: 2015-present Yuxi (Evan) You

Terms and Conditions: Refer Section 2.3

**5.136 Blackmagic DeckLink SDK 9.6.4-master\_2012-10-10**

Description: Verbatim from the pdf included in the original download:

"The DeckLink SDK provides a stable, cross- platform interface to a Blackmagic Design DeckLink product line. The SDK provides both low-level control of hardware and high-level interfaces to allow developers to easily perform common tasks

Available under the license: BSL

Copyright (c): 2014 Blackmagic Design

Terms and Conditions: Refer Section 2.2

**5.137 aes-js - 3.1.2**

Description: A pure JavaScript implementation of the AES block cipher algorithm and all common modes of operation (CBC, CFB, CTR, ECB and OFB).

Available under the license: MIT License

Copyright (c): 2015 Richard Moore

Terms and Conditions: Refer Section 2.3

**5.138 mosquito-v1.6.7**

Description: Open source (EPL/EDL licensed) message broker that implements the MQTT protocol

URL : <https://mosquitto.org/>

Available under the license: Eclipse Public License 1.0, Eclipse Distribution License 1.0

Copyright (c): 2010-2014 Roger Light <[roger@atchoo.org](mailto:roger@atchoo.org)>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Terms and Conditions: Refer Section 2.23

#### **5.139 atob - 2.1.2**

Description: Uses Buffer to emulate the exact functionality of the browser's atob.

Available under the license: MIT License , Apache 2.0 License

Copyright (c): 2015 AJ ONeal

Terms and Conditions: Refer Section 2.3, 2.6

#### **5.140 cli-spinners - 1.3.1**

Description: Spinners for use in the terminal

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> (<https://sindresorhus.com>)

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#### **5.141 vue-i18n**

Description: Internationalization plugin for Vue.js

Available under the license: MIT License

Copyright (c): 2016 kazuya kawaguchi

Terms and Conditions: Refer Section 2.3

#### **5.142 vue-router**

Description: The official router for Vue.js

Available under the license: MIT License

Copyright (c): 2013-present Evan You

Terms and Conditions: Refer Section 2.3

#### **5.143 vue-style-loader**

Description: A fork based on style-loader

Available under the license: MIT License

Copyright (c): JS Foundation and other contributors

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

Terms and Conditions: Refer Section 2.3

**5.144 webpack**

Description: A module bundler

Available under the license: MIT License

Copyright (c): JS Foundation and other contributors

Terms and Conditions: Refer Section 2.3

**5.145 cli-table-redemption - 1.0.1**

Description: Rrender unicode-aided tables on the command line from node.js scripts.

Available under the license: MIT License

Copyright (c): 2011-2017 Automattic, 2017 Keymetrics

Terms and Conditions: Refer Section 2.3

**5.146 co - 4.6.0**

Description: Generator based control flow goodness for nodejs and the browser, using promises, letting you write non-blocking code in a nice-ish way.

Available under the license: MIT License

Copyright (c): 2014 TJ Holowaychuk <tj@vision-media.ca>

Terms and Conditions: Refer Section 2.3

**5.147 commander - 2.20.3**

Description: The complete solution for node.js command-line interfaces, inspired by Ruby's commander.

Available under the license: MIT License

Copyright (c): 2014 TJ Holowaychuk <tj@vision-media.ca>

Terms and Conditions: Refer Section 2.3

**5.148 fs-extra - 3.0.1**

Description: Adds file system methods that aren't included in the native fs module and adds promise support to the fs methods.

Available under the license: MIT License

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Copyright (c): 2011-2017 JP Richardson

Terms and Conditions: Refer Section 2.3

#### **5.149 inquirer - 3.3.0**

Description: A collection of common interactive command line user interfaces.

Available under the license: MIT License

Copyright (c): 2012 Simon Boudrias

Terms and Conditions: Refer Section 2.3

#### **5.150 ora - 1.4.0**

Description: Elegant terminal spinner

Available under the license: MIT License

Copyright (c): Sindre Sorhus <sindresorhus@gmail.com> (<https://sindresorhus.com>)

Terms and Conditions: Refer Section 2.3

#### **5.151 thunkify - 2.1.2**

Description: Turn a regular node function into one which returns a thunk, useful for generator-based flow control such as co.

Available under the license: MIT License

Copyright (c): 2018 TJ Holowaychuk

Terms and Conditions: Refer Section 2.3

#### **5.152 unzip - 0.1.11**

Description: Streaming cross-platform unzip tool written in node.js.

Available under the license: MIT License

Copyright (c): 2012 - 2013 Near Infinity Corporation

Terms and Conditions: Refer Section 2.3

#### **5.153 xmldom - 0.1.31**

Description: A JavaScript implementation of W3C DOM for Node.js, Rhino and the browser

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Available under the license: MIT License

Copyright (c): None

Terms and Conditions: Refer Section 2.3

**5.154 xpath - 0.0.24**

Description: DOM 3 XPath 1.0 implementation and helper for JavaScript, with node.js support.

Available under the license: MIT License

Copyright (c): 2018 Cameron McCormack

Terms and Conditions: Refer Section 2.3

**5.155 npm-cli-login - 0.1.1**

Description: Allows to log in to NPM without STDIN, STDOUT

Available under the license: Apache 2.0 License

Copyright (c): None

Terms and Conditions: Refer Section 2.6

**5.100 ozone-wayland-45.0.2454.376.156 selenium-webdriver-master\_2015-05-28**

Description: WebDriver is a clean, fast framework for automated testing of webapps.

Available under the license: Apache 2.0 License

Copyright (c): 2007-2009 Google Inc.

2007-2009 WebDriver committers

Terms and Conditions: Refer Section 2.6

**5.157 glog-v0.3.4**

Description: libsync helper library

Available under the license: BSD 3 License

Copyright (c): 2010 The Chromium Authors

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

**5.158 freetype-freetype-2.6.1**

Description: FreeType library.

Available under the license: FreeType License (FTL)

Copyright (c): 1996-2015 by David Turner, Robert Wilhelm, and Werner Lemberg

Terms and Conditions: Refer Section 2.12

**5.159 jsoncpp-1.6.2**

Description: The JsonCpp library's source code, including accompanying documentation, tests and demonstration applications, are licensed under the following conditions...

Available under the license: MIT License

Copyright (c): 2007-2010 Baptiste Lepilleur

Terms and Conditions: Refer Section 2.3

**5.160 brackets - 1.11**

Description: A modern open-source code editor for HTML, CSS and JavaScript that's built in HTML, CSS and JavaScript.

Available under the license: MIT License

Copyright (c): 2012 - present Adobe Systems Incorporated. All rights reserved.

Terms and Conditions: Refer Section 2.3

**5.161 bootstrap-toggle - 2.2.2**

Description: Bootstrap Toggle is a highly flexible Bootstrap plugin that converts checkboxes into toggles.

Available under the license: MIT License

Copyright (c): Terms and Conditions: Refer Section 2.3

**5.162 Toastr**

Description: A Javascript library for non-blocking notifications. jQuery is required

Available under the license: MIT License

Copyright (c): Terms and Conditions: Refer Section 2.3

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

### 5.163 sqlite-version-3.7.6.2

Description: SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine.

Available under the license: Public domain

Copyright (c):

Terms and Conditions: Refer Section 2.10

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

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V3.0    03/08/2004    -Initial Version for sqlite3

V3.1    16/09/2004    -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

V3.2    01/07/2005    -Fixed execScalar to handle a NULL result

12/07/2007    -Added int64 functions to CppSQLite3Query

-Throw exception from CppSQLite3DB::close() if error

-Trap above exception in CppSQLite3DB::~~CppSQLite3DB()

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>XC-CT</b>	<b>XC_CT_RN_AIVI_Scope 3.x</b>	<b>4th April 2023</b>

-Fix to CppSQLite3DB::compile() as provided by Dave Rollins.

-sqlite3\_prepare replaced with sqlite3\_prepare\_v2

-Added Name based parameter binding to CppSQLite3Statement.

V3.3 02/14/2019 -Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);

CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char \*str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

05/07/2019 -Modified CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO

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05/10/2021 -throw exception from CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.2	2.1.1	2002	PSF	yes
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Modified files

07/11/2019 Patched "(URL : <https://github.com/bdarnell/tornado/tree/cython>)" by OBIGO

- gen.py           Fix coroutines in cython-compiled code
- gen\_test.py     Add a compiler directive to get gen\_test (mostly) working when cythonized
- options.py       Work around cython incompatibilities in options.py
- options\_test.py  Work around cython incompatibilities in options.py
- util.py          Make ArgReplacer compatible with cython.
- web\_test.py      Also cythonize as many of the tests as possible.

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Portions of code from MODP\_ASCII - Ascii transformations (upper/lower, etc)

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Numeric decoder derived from from TCL library

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#### DOCUMENTATION ROADMAP

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This file contains the following sections:

**OVERVIEW**        General description of JPEG and the IJG software.

**LEGAL ISSUES**    Copyright, lack of warranty, terms of distribution.

**REFERENCES**     Where to learn more about JPEG.

**ARCHIVE LOCATIONS** Where to find newer versions of this software.

**FILE FORMAT WARS** Software \*not\* to get.

**TO DO**            Plans for future IJG releases.

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Other documentation files in the distribution are:

User documentation:

usage.txt      Usage instructions for cjpeg, djpeg, jpegtran,  
rdjpgcom, and wrjpgcom.

\*.1            Unix-style man pages for programs (same info as usage.txt).

wizard.txt     Advanced usage instructions for JPEG wizards only.

change.log     Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt    How to use the JPEG library in your own programs.

example.c      Sample code for calling the JPEG library.

structure.txt   Overview of the JPEG library's internal structure.

coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression

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method for full-color and grayscale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG

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decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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#### REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",  
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C

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code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.iijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.iijg.org/files/jfif.txt.gz>, but it is missing the figures.

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The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.iijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.iijg.org](http://www.iijg.org). The most recent released version can always be found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

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